NAVMC DIRECTIVE 3500.97

From: Commandant of the Marine Corps
To: Distribution List

Subj: AVIATION TRAINING AND READINESS (T&R) DIRECTIVE, DIRECT AIR SUPPORT
       CENTER (SHORT TITLE: T&R DIRECTIVE, DASC)

Ref: (a) NAVMC 3500.14

Encl: (1) LOCATOR SHEET

1. SITUATION. To revise policies, training standards and regulations
regarding the training of Marine Corps air support control officers and net
operators, per the reference.

2. INFORMATION.

    a. The purpose of this directive is to establish procedures and
standards for the training of air support control officers and net operators.

    b. Recommended changes to this directive are invited, and will be
submitted via the syllabus sponsor and the appropriate chain of command to
the Commanding General, Training and Education Command, Aviation Training
Branch via e-mail (refer to http://www.tecom.usmc.mil/atb/contacts_.htm) or
the Defense Message System using the following plain language address: CG
TECOM QUANTICO VA ATB.

4. SCOPE. DASC personnel shall train to the standards and programs of
instruction contained within this directive.

5. COMMAND. This directive is applicable to the Marine Corps Total Force.

6. CERTIFICATION. This directive is reviewed and approved this date.

K. J. STALDER
By direction

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LOCATOR SHEET

Subj: <u>DASC AVIATION TRAINING AND READINESS (T&R) PROGRAM DIRECTIVE</u>

Location: _____
           (Indicate location(s) of copy(ies) of this Directive.)

RECORD OF CHANGES

Log completed change action as indicated.

Change Number	Date of Change	Date Entered	Signature of Person Incorporated Change

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AIR SUPPORT CONTROL OFFICER (ASCO)
(MOS 7208)

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CHAPTER 1

AIR SUPPORT CONTROL OFFICER (ASCO)
(MOS 7208)

100. UNIT CORE COMPETENCY

1. Purpose

    a. This training and readiness (T&R) directive represents the
collaborative effort of Direct Air Support Center (DASC) subject matter
experts who designed training standards to maximize the full combat
capabilities of Marine Air Support Squadron (MASS). These standards,
intrinsic in the core competency section, describe and define unit
capabilities and requirements necessary to maintain MASS proficiency in core
skills and combat leadership. Training events are based on specific
requirements and performance standards to ensure crews maintain a common base
of training and depth of combat capabilities. The T&R comprises a building
block approach to ensure trained crews remain ready, relevant, and fully
capable of supporting the Marine Air Ground Task Force (MAGTF) commander.

    b. The capabilities defined and described in the core competency model
are provided to ensure each MASS maintains a common base of training and
depth of capabilities. Commanders are encouraged to pursue additional
training to increase the unit's warfighting capability above the base level;
however, it is incumbent upon the commander to balance any additional
training against the long-term health and readiness of the unit while staying
within resource constraints.

2. Direct Air Support Center (DASC) Mission. Support the MAGTF commander by
processing immediate air support requests; integrating aircraft employment
with other supporting arms; managing terminal control assets supporting the
MAGTF; and controlling assigned aircraft, unmanned aerial vehicles (UAVs),
and itinerant aircraft transiting through DASC controlled airspace.

3. Mission Essential Tasks (METs)

    a. (UJTL TA 1.1.4) Conduct Sea and Air Deployment operations.
        -Conduct amphibious/expeditionary operations to include the
        capability to phase control ashore.

    b. (UJTL TA 3.3) Coordinate Battlespace Maneuver and Integrate with
firepower.
        -Receive, process and coordinate requests for immediate direct air
        support.
        -Coordinate the execution of direct air support missions with other
        supporting arms.
        -Manage terminal control assets through the allocation of
        frequencies, aircraft and personnel in conjunction with supported
        elements.
        -Plan, install, operate and maintain an airborne command and control
        capability to conduct direct air support operations.

    c. (UJTL TA 5) Exercise Command and Control.
        -Coordinate the execution of preplanned and immediate direct air
        support.

-Conduct liaison to facilitate direct air support operations, as necessary.
-Maintain continuous DASC functions while displacing.
-Control assigned and itinerate aircraft, to include UAVs.

    d. (UJTL TA 5.2.1) Establish, Operate and Maintain Baseline Information Exchange.
-Plan, install, operate and maintain communications to conduct direct air support operations.

    e. (UJTL TA 7.1) Conduct Mission Operations in a CBRNE Environment.
-Conduct combat operations in an NBC environment.

4. <u>Table of Organization (T/O)</u>. T/Os are managed by Total Force Structure Division (TFSD) and Marine Corps Combat Development Command (MCCDC). Table 1-1 depicts DASC T/Os authorized as of the date of this directive.

Table 1-1. -- DASC T/O 8660[1].

MASS UNIT
Officers – 4 (7202)   – 30 (7208) Enlisted – 69 (7242)

DASC	**AIRBORNE DASC**

Officers – 3 (7202)
            – 15 (7208)
Enlisted – 46 (7242)
	Officers – 1 (7202)
	            – 8 (7208)
	Enlisted – 12 (7242)

DASC ASE[2] Officers – 4 (7208) Enlisted – 8 (7242)	**DASC ASLT** Officers – 3 (7208) Enlisted – 3 (7242)

Note 1: Maintenance and support personnel assigned to each DASC element are not listed. Note 2: Denotes OCONUS and CONUS MEU Detachments.

5. <u>Core Capability</u>. A core capable MASS is able to field, at minimum, a DASC with an echelon, an airborne extension and Air Support Liaison Teams (ASLT) and is capable of processing immediate air support requests, integrating aircraft and UAV employment with other supporting arms, managing terminal control assets and procedurally controlling aircraft operating in its area of responsibility.

    a. <u>Core Capable DASC</u>. A core capable DASC is able to process immediate air support requests, integrate aircraft and UAV employment with other supporting arms, manage terminal control assets and procedurally control aircraft operating in its area of responsibility. Crew composition is task-organized based on mission. Number of crews required is driven by operational hours and operational situation. An echelon capability ensures continuous DASC operations while the DASC is displacing. The echelon is a

part of the DASC T/O and will be task organized. The echelon can normally
fulfill the DASC mission for a limited duration. Number of echelon crews
required is driven by operational situation and hours of operations.

> DASC Crew
> Senior Watch Officer (DSWO).
> Senior Air Director (SAD).
> Crew Chief (CC).
> Tactical Air Director (TAD).
> Helicopter Director (HD).
> Tactical Air Request/Helicopter Request (TAR/HR) Net Operator (x2).
> TAC Net Operator.
> DAS Net Operator.
> FSC Net Operator.
> Plotter (x3).

  b. Core Capable DASC Airborne (DASC(A)). A core capable DASC(A) serves
as an airborne extension of the DASC. The operational period is limited by
aircraft time on station. Crew composition is task-organized based on
mission.

> DASC(A) Crew
> Senior Air Director (SAD).
> Crew Chief (CC).
> Tactical Air Director (TAD).
> Helicopter Director (HD).
> TAR/HR Net Operator.
> TAC/DAS Net Operator.
> FSC Net Operator.

  c. Core Capable Air Support Liaison Team (ASLT). A core capable ASLT
provides face-to-face coordination between the DASC and FSCC. It facilitates
the effective coordination and integration of direct air support missions
with the employment of other supporting arms.

> ASLT Crew
> Tactical Air Director/Helicopter Director (TAD/HD).
> FSC Net Operator.

  d. Core Capable Air Support Element (ASE). A core capable ASE is a
task-organized element employed with a MEU. The ASE is not a DASC but is
capable of assisting in the control of airborne assets for a limited period
of time in a limited area. Normally the ASE performs this function for the
landward portion of an amphibious objective area.

> ASE Crew
> Senior Air Director (SAD).
> Tactical Air Director/Helicopter Director (TAD/HD).
> Crew Chief (CC).
> FSC Net Operator.
> TAR/HR Net Operator.
> Plotter.

6. MET/Core Skills. Core skills shall be a determining factor in developing
T&R training requirements; core skills abbreviations are listed in table 1-2.
Core skills directly support the METs for each unit, see table 1-3 below.
Special skills and training requirements must receive appropriate

prioritization and emphasis based on the training need and the likelihood of those types of missions being assigned during operations.

Table 1-2. -— Core Skills Abbreviations.

CORE SKILL	ABBREVIATION
Air control	CTRL
Crew management[1]	CM
Battle management	BM
Air support net operations	ASNO

Table 1-3. -- Core Skill and METL Matrix.

MISSION ESSENTIAL TASK LIST	CORE SKILLS			CORE PLUS
	CTRL	CM	ASNO	BM
Conduct Sea and Air Deployment operations	X	X	X	X
Coordinate Battlespace Maneuver and Integrate with firepower.		X	X	X
Exercise Command and Control	X	X	X	X
Establish, operate and maintain baseline information exchange	X	X	X	X
Conduct Mission Operations in a CBRNE Environment	X	X	X	X

7. <u>Core Model Minimum Requirements (CMMR)</u>. The squadron core competency reflects minimum level of competency a DASC crew must achieve to perform its core capability. Squadron core competency is measured in terms of minimum Core Skill Proficiency (CSP) and minimum number of DASC combat leaders.

    a. <u>Minimum Unit CSP Requirements</u>. At a minimum, in order to be considered core competent, a unit must have DASC personnel who are proficient in each core skill (unit CSP) as indicated in table 1-4. In order for an individual to be considered proficient in a core skill (individual CSP), personnel must attain proficiency in core skill events, as noted in paragraphs 7a(1) and 7a(2) and delineated in tables 1-5 through 1-6. DASC personnel will maintain proficiency in core skill events as delineated in tables 1-7 through 1-9.

Table 1-4. -- Minimum Unit CSP Requirements.

CORE SKILL	DASC		DASC(A)		ASLT		ASE	
	7208/7202 (7277)	7242 (7277)	7208/ 7202	7242 (7277)	7208	7242	7208	7242
CM	3/0	3	2/1	2	NA	NA	NA	NA
CTRL	6/0	NA	3/0	NA	3	NA	2	NA
ASNO	NA	12	NA	4	NA	2	NA	2
CORE PLUS								
BM	(1)/(1)	(1)	NA	(1)	NA	NA	NA	NA
Note: To obtain unit CSP, applicable core skill and core plus events is required								

(1) Events Required to Attain Individual CSP. To initially attain CSP, DASC personnel must complete level 100 events and all T&R events listed in tables 1-5 through 1-6 for the core skill. Attain events shall not be waived. Units shall use evaluation forms maintained by T&R sponsor, MAWTS-1 DASC Div DSN 269-3358.

Table 1-5. —- Attain Individual Core Skill Basic.

CORE SKILL BASIC (CTRL)				
	DSWO	SAD	TAD	HD
EVENTS	NA	NA	CTRL 200, 201, 202, 203, 204, 205, 206E, 207E, 208E TAD 211ER, 212Q	CTRL 200, 201, 202, 203, 204, 205, 206E, 207E, 208E HD 209ER, 210Q
E= Evaluation of performance for Qualification recommendation. Q = Qualification. R = Refresher events.				

Table 1-6. —- Attain Individual Core Skill Advanced.

CORE SKILL ADVANCED (CM)				
	DSWO	SAD	TAD	HD
EVENTS	NA	SAD 300, 301, 302, 303, 304E, 305, 306E, 307E, 308E, 309ER, 310ER, 316Q	NA	NA
E= Evaluation of performance for Qualification recommendation. Q = Qualification. R = Refresher events.				

(2) Events Required to Maintain Individual CSP. To maintain CSP, DASC personnel must complete all T&R events listed in tables 1-7 and 1-8 for that core skill. Units shall use evaluation forms maintained by T&R sponsor, MAWTS-1 DASC Div DSN 269-3358.

Table 1-7. -- Maintain Individual Core Skill Basic.

CORE SKILLS BASIC (CTRL)				
	DSWO	**SAD**	**TAD**	**HD**
EVENTS	NA	NA	TAD 211ER	HD 209ER
E= Evaluation of performance for Qualification recommendation. R = Refresher events.				

Table 1-8. —- Maintain Individual Core Skill Advanced.

CORE SKILLS ADVANCED (CM)				
	DSWO	**SAD**	**TAD**	**HD**
EVENTS	NA	SAD 309ER, 310ER	NA	NA
E= Evaluation of performance for Qualification recommendation. R = Refresher events.				

   b. Minimum Combat Leadership Requirements. As a minimum, in order to be considered core competent a unit must have DASC personnel with the leadership designations listed in table 1-9.

Table 1-9. -- Minimum Combat Leadership Requirements.

COMBAT LEADERSHIP	DASC	DASC(A)	ASLT	ASE
Senior Watch Officer (SWO)	1	0	0	0
Senior Air Director (SAD)	4	3	0	0
Crew Chief (CC)	4	3	0	0
Totals	**9**	**6**	**0**	**0**
Note: Detachment OICs and SNCOICs are not reflected in the table				

8. Qualifications and Designations. Tables 1-5, 1-6, 1-7 and 1-8 delineate T&R events required to be completed to attain initial qualifications, re-qualifications and designations. All stage lectures, briefs, squadron training and prerequisites shall be completed prior to completing final events. Qualification and designation letters signed by the commanding officer or his direct representative shall be placed in the individual MACCS performance training record. Loss of proficiency in all qualification events of a core skill causes the associated qualification to be lost. Regaining the qualification requires completing all R-coded syllabus events associated with the qualification.

   a. Qualification. Qualification is a status assigned to personnel based on demonstration of proficiency in a specific skill. Qualification codes are 600 level codes and do not constitute events themselves. Qualifications will be logged upon completion of qualification requirements; the qualification letter has been signed by the commander or his direct representative, filed in the MACCS performance training record and other administrative actions taken as appropriate. Loss of proficiency for all associated qualification events constitutes loss of that qualification. Re-qualification requires demonstrated proficiency in "R" coded events. Refer to the Core Skill (Basic

and Advanced) and Core Plus phases for qualification requirements. Table 1-10 lists ASCO qualifications.

Table 1-10. —-ASCO Qualifications.

QUALIFICATION	REQUIREMENTS	TRACKING CODE
Helicopter Director	HD-210Q	QUAL-610
Tactical Air Director	TAD-212Q	QUAL-612
Senior Air Director	SAD-316Q	QUAL-616

b. <u>Designation</u>. A designation is a status assigned to an individual based on leadership ability (see table 1-11). It is command specific and remains in effect until removed for cause, rescinded at the commander's discretion, or the individual is transferred out of the command. Commanders shall issue the individual a designation letter for inclusion in the MACCS performance training record.

Table 1-11. -- ASCO Designations.

DESIGNATION	REQUIREMENTS	TRACKING CODE
DASC Liaison Officer	HD-210Q, TAD-212Q	DESG-614
DASC Senior Watch Officer	DSWO-418	DESG-620

c. <u>Instructor Requirements</u>. As a minimum, a unit should maintain Weapons and Tactics Instructor (WTI) – Air Control designations to support DASC operations (see table 1-12). ASCOs receive MOS 7277 upon completion of WTI course. The completion certificate shall be placed in the individual MACCS performance training record. Instructor designations are outlined in the MAWTS-1 Course Catalog, MCO 3500.12C (WTTP), and governing directives.

Table 1-12. -— Instructor Qualifications.

QUALIFICATION	REQUIREMENT	TRACKING CODE
WTI-Air Control	INST-518	QUAL-618

9. Air <u>Support Control Officer (ASCO) TRAINING PROGRESSION MODEL</u>

a. A progression model depicts the logical training progression for ASCO personnel within a DASC unit. The base of each model contains those events and qualifications an individual attains as an ASCO. The highest phase of the progression model contains qualifications held by only the most experienced personnel within a unit. The training progression model for the ASCO is depicted in figure 1-1.

b. This training progression model provides training officers with a valuable tool to develop training plans. With a clear progression of qualifications delineated, and an emphasis on the qualification of Core Skill

Basic and Core Skill Advanced personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.

Air Support Control Officer (7208)
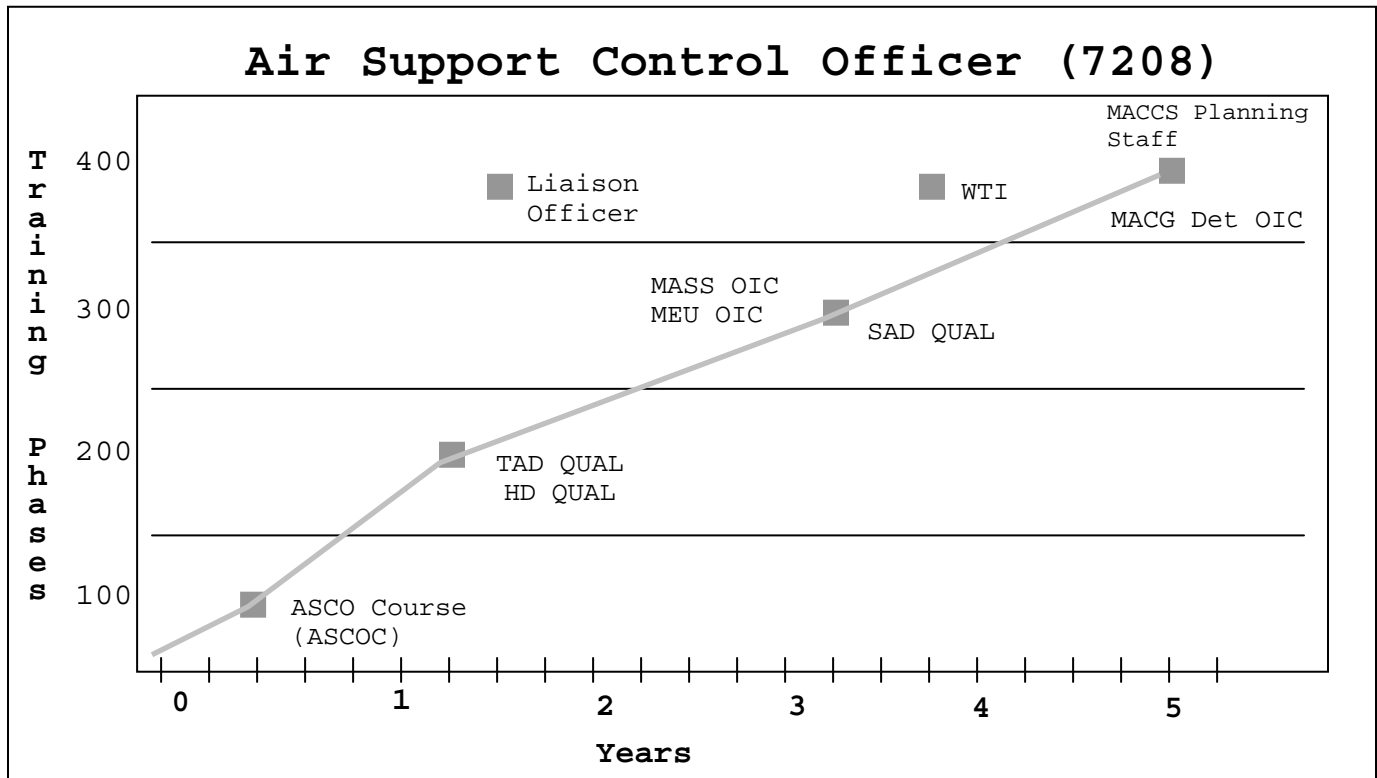
Figure 1-1. -- Air Support Control Officer Training Progression Model.

101. PROGRAMS OF INSTRUCTION (POI)

1. Basic POI for ASCO

Weeks	Course/Phase	Activity
1-10	Air Support Control Officers Course (ASCOC)/ Core Skill Introduction	MCCES
11-63	Tactical Air Director (TAD)/Helicopter Director (HD)/Core Skill Basic	MASS
64-168	Senior Air Director (SAD)/Core Skill Advanced	MASS
169-325	DASC Senior Watch Officer (DSWO)/Core Plus	MASS

2. Refresher POI for ASCO

Weeks	Course/Phase	Activity
1	Tactical Air Director (TAD)/Core Skill Basic	MASS
1	Helicopter Director (HD)/Core Skill Basic MASS	
1	Senior Air Director (SAD)/Core Skill Advanced	MASS

3. DASC WTI OFFICER

WEEKS	COURSE/PHASE	ACTIVITY
7	WTI/Air Control	MAWTS-1

4. DSWO POI

WEEKS	COURSE/PHASE	ACTIVITY
156	Core Plus	MASS

102. BASIC POI TRAINING

1. Core Skill Introduction Training

STAGE	EVENTS	PERCENT
ASCOC	10	60.00%
TOTAL	10	60.00%

2. Core Skill Basic Training

STAGE	EVENTS	PERCENT
*CTRL	9	9.00%
HD	2	3.00%
TAD	2	3.00%
TOTAL	13	15.00%
ACCUMULATED TOTAL	23	75.00%

*This stage contains common events required for the TAD and HD stages.

3. Core Skill Advanced Training

STAGE	EVENTS	PERCENT
SAD	12	20.00%
TOTAL	12	20.00%
ACCUMULATED TOTAL	35	95.00%

4. Core Plus Training

STAGE	EVENTS	PERCENT
DSWO	10	5.0%
TOTAL	10	5.00%
ACCUMULATED TOTAL	45	100.00%

103. REFRESHER POI TRAINING

1. Core Skill Basic Phase

STAGE	EVENTS	HOURS
HD (HD 209ER)	1	16
TAD (TAD 211ER)	1	16
TOTAL FOR PHASE:	2	32

2. Core Skill Advanced Phase

STAGE	EVENTS	HOURS
SAD (SAD 309ER-310ER)	2	16
TOTAL FOR PHASE:	2	16

110. <u>ACADEMIC TRAINING</u>

1. Academic training shall be conducted for each phase/stage of the
syllabus. Commanders are strongly encouraged to incorporate the lectures in
appendix A into their training plans. Where indicated, standardized academic
training materials exist and may be obtained from the sponsoring activity.

2. External academic courses of instruction required to complete the
syllabus are listed below.

Course	Activity
Weapons and Tactics Instructors (WTI) Course	MAWTS-1
Air Command and Control Officers Course (ACCOC)	MAWTS-1
Senior Watch Officers (SWO) Course	MAWTS-1
Joint Aerospace Computer Applications Course (JACAC)	C2WS
Joint Air Tasking Order Process (JATOP) Course	505th TSR
Aerospace Operations Center Initial Qualification Training, Offensive Course (AOCIQTOFF)	505th TSR
Joint Doctrine Air Campaign Course (JDACC)	AFCSC
Joint Firepower Course (JFC)	Nellis AFB
Tactical Air Control Party/Firepower	EWTG PAC/LANT
Joint Tactical Info Distribution Systems	Ft McPherson, GA
Multi-TADIL Advanced Joint Interoperability Course	Ft McPherson, GA

3. <u>References</u>. References provided in appendix B shall be utilized to
ensure safe and standardized training procedures, performance standards,
grading criteria and equipment operations.

130. <u>EVENT PERFORMANCE REQUIREMENTS</u>

1. The purpose of this section is to provide the commander with standardized
programs of instruction for all DASC personnel. The goal is to develop unit
warfighting capabilities, not to measure the proficiency of individuals.
Syllabi are based on specific performance standards designed to ensure
proficiency in core competencies. An effective T&R program is the first step
in providing the MAGTF commander with an Aviation Combat Element (ACE)
capable of accomplishing any and all of its stated missions. The T&R program
provides the fundamental tools for commanders to build and maintain unit
combat readiness. Using these tools, training managers can construct and
execute an effective training plan that supports the unit METS.

2. Unit training management is the application of the Marine Corps Training
Principles and the Systems Approach to Training to satisfy the training
requirements of commanders at all levels in order to accomplish their wartime
mission. Guidance concerning unit training management and the process for
establishing effective unit training management programs are contained in
MCRP 3-0A, <u>Unit Training Management Guide</u>, and formed the basis for the
development of this T&R Directive. Familiarity with MCRP 3-0A will enhance
understanding of the Systems Approach to Training used in T&R development and
Marine Corps UTM principles.

3. <u>MACCS Integrated System Training</u>. All elements of the MACCS shall
maintain the capability to effectively function as part of an integrated
airspace command and control system. In that, large exercises may not always
offer sufficient training opportunity for all crew members, and in many cases

do not offer sufficient latitude to refine capability upon arrival, the MACCS should conduct MACCS Integrated System Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEXs should focus on the establishment of necessary communications and data links between MACCS agencies, and incorporate sufficient simulation and Marine Simulation Events List (MSEL) items to exercise and analyze system integration, crew coordination, and critical information flow wherever possible. Tactical Digital Link (TDL) capable agencies should conduct frequent "link" training exercises to maintain proficiency.

131. <u>CORE SKILL INTRODUCTION TRAINING</u>

1. <u>General</u>

    a. This phase provides classroom entry-level instruction to develop the basic skills necessary for an officer with MOS 7208 to be qualified as a basic ASCO. This training is complete upon graduation from the Air Support Control Officer Course located in 29 Palms, CA. Upon completion, the ASCO will be 60% core skill trained in DASC operations.

    b. <u>Core Skill Introduction Stage</u>. Systems (SYS).

2. <u>System (SYS)</u>

    a. <u>Purpose</u>. To develop basic knowledge of DASC procedures and operations. Completion of Air Support Control Officer Course at Marine Corps Communication-Electronics School (MCCES), 29 Palms, CA is mandatory to satisfy this requirement.

    b. <u>Prerequisite</u>. Secret clearance and normal color vision.

    c. <u>Academic Training</u>. Formal school.

    d. <u>Classroom and Simulator Event Training</u>. 8 events.

<u>SYS-100E   1 HR</u>   E   L

    <u>Goal</u>. Understand air support communications equipment.

    <u>Requirement</u>. In the classroom and without the aid of reference, identify the following:

    (1) Nomenclature.
    (2) Frequency spectrum.
    (3) Range.
    (4) Power requirements.
    (5) Antenna configurations.

    <u>Performance Standard</u>. Pass a test with a minimum score of 80%.

    <u>Prerequisite</u>. Lecture 4.02.

SYS-101E   1 HR   E   L

Goal. Conduct authentication, encryption, and decryption.

Requirement. In the classroom and without the aid of references correctly perform the following:

(1) Encrypt information.
(2) Decrypt information.
(3) Authenticate.

Performance Standard. Pass a test with a minimum score of 80%.

Prerequisite. Lecture 2.05.

SYS-102E   1 HR   E   L

Goal. Accurately plot coordinates.

Requirement. In the classroom with a map conduct the following without the aid of references:

(1) Find a four-digit UTM coordinate.
(2) Find a six-digit UTM coordinate.
(3) Find an eight-digit UTM coordinate.
(4) Locate a Latitude/Longitude coordinate.
(5) Plot friendly/enemy units using appropriate symbols.
(6) Plot DASC specific symbols (JTAR, ASR, etc.).
(7) Complete and understand mission data on status boards (TAD/HD).

Performance Standard. Pass a test with a minimum score of 80%.

Prerequisite. Lectures 3.03 and 3.04.

SYS-103E   1 HR   E   L

Goal. Pass a practical application test on the JTAR/ASR.

Requirement. In the classroom and without the aid of references, perform the following:

(1) Receive and process JTARs. Assign appropriate request number and complete the form.
(2) Receive and process ASRs. Assign appropriate request number and complete the form.

Performance Standard. Pass a test with a minimum score of 80%.

Prerequisite. Lectures 3.01 and 3.02.

SYS-104E   1 HR   E   L

Goal. Introduce operations on the airborne command and control platform.

Requirement. In an airborne command and control platform and without the aid of reference, introduce with the following:

(1) Monitor a radio net.
(2) Transmit on a radio net.
(3) Answer a telephone call.
(4) Place a telephone call.
(5) Utilize intercommunications system.
(6) Alter assigned frequencies utilizing resets/remote/radio face.
(7) Conduct emergency shutdown procedures.

Performance Standard. Pass a test with a minimum score of 80%.

Prerequisite. Lecture 4.05.

SYS-105E   1 HR   E   L

Goal. Introduce operations on the ground command and control platform.

Requirement. In a ground command and control platform and without the aid of reference, introduce and perform the following:

(1) Monitor a radio net.
(2) Transmit on a radio net.
(3) Answer a telephone call.
        (4) Place
 a telephone call.
(5) Utilize intercommunications system.
(6) Enable/disable crypto logical equipment.
(7) Affiliate/disaffiliate an UCD.

Performance Standard. Pass a practical application test with a minimum score of 80%.
Prerequisite. Lecture 4.01.

SYS-106   1 HR   L

Goal. Introduce the Advanced Field Artillery Tactical Data System (AFATDS).

Requirement. Utilizing an AFATDS, introduce the following:

(1) Apply power, and login.
(2) Perform setup initialization: install map mod/center, printer, alarms and time.
(3) Setup communications: owner ID, subscriber data, and communication check.
(4) Send/receive plain text messages.
(5) Send/receive Battlefield Geometry.
(6) Process data techniques.
(7) Artillery firing update (AFU).

Performance Standard. Attend course of instruction and participate in classroom discussions.

Prerequisite. Lectures 2.06.

SYS-107E   1 HR   E   L

   Goal. Introduce TBMCS applications.

   Requirement. Utilizing a TBMCS terminal, introduce and demonstrate the
   following:

   (1) Apply power and log in.
   (2) Using appropriate applications:
       (a) Send/receive e-mail.
       (b) Receive, display, and process electronic requests for
           immediate air support.
       (c) Access, manipulate, and print an Air Tasking Order.
       (d) Access and print an Airspace Control Order.
       (e) Establish and participate in an online Chat session.

   Performance Standard. A DASC MCCES instructor will qualitatively evaluate
   performance.

   Prerequisite. Lecture 2.07.

SYS-108   1 HR   L

   Goal. Conduct C2PC applications.

   Requirement. Utilizing C2PC applications, perform the following:

   (1) Map Manager to include the range-bearing tool.
   (2) Receive, send, and build overlays.
   (3) Apply appropriate filters.
   (4) Plot ASR, JTAR, 9 Line and Datum conversions.

   Performance Standard. A DASC MCCES instructor will evaluate performance.

   Prerequisite. Lecture 2.08.

SYS-109E   7 HRS   E   L

   Goal. Understand lectures 1.01 through 5.02.

   Requirement. Attend classroom lectures 1.01 through 5.02, ensure to
   understand the course material being presented.

   Performance Standard. Pass a test with a minimum score of 80%.

132. CORE SKILL BASIC TRAINING

1. General

   a. This phase applies skills and information obtained at the Core Skill
Basic level while assigned to a MASS unit. This phase includes elements
supporting the Air Control (CTRL) Core Skill. Initial individual core skills
are learned and mastered using a mix of live and simulation exercises.
Training includes introduction to DASC equipment and the MACCS. This phase

is completed when the Marine achieves qualifications as an HD and TAD. HD and TAD training can be conducted simultaneously.

    b. <u>Administrative Notes</u>. Complete below listed MCI courses prior to completing this phase of training:

        <u>MCI Num</u>   <u>MCI Title</u>
        25.15   Antenna Construction and Propagation of Radio Waves
        25.25   Communications Security
        25.32   HF/UHF Field Radio Equipment
        25.38   Single Channel Ground Airborne Radio System

    c. <u>Core Skill Basic Stages</u>

        (1) Control (CTRL).
        (2) Helicopter Direction (HD).
        (3) Tactical Air Direction (TAD).

2. <u>Air Control (CTRL)</u>

    a. <u>Purpose</u>. To develop proficiency in air support operations focusing on air control and employment of fixed wing and rotary wing assets.

    b. <u>Administrative Notes</u>. Upon completion of this stage, the Marine will be prepared to begin being evaluated for HD and TAD qualifications.

    c. <u>Prerequisite</u>. Complete the 100-level phase of this syllabus.

    d. <u>Refresher Training</u>. Refresher training is required for a previously qualified controller who has not performed as an HD or TAD for 12 months or longer. The Controller will complete applicable R coded events in the 200 level syllabus.

    e. <u>Crew Requirements</u>. A DASC crew.

    f. <u>Academic Training</u>. Lectures that reinforce this training stage are A-01 through A-22 (except: A-16, A-17 and A-20), and C-04.

    g. <u>Live and Simulator Event Training</u>. It is encouraged to use as much live training as possible for CTRL events, 2 events.

CTRL-200   TACP   L

    <u>Goal</u>. Introduce configuration and operation of a Tactical Air Control Party (TACP).

    <u>Requirement</u>. Observe a TACP in a field environment.

    <u>Performance Standard</u>. Complete a tour of a TACP.

CTRL-201   TAOC   L

    <u>Goal</u>. Introduce configuration and operation of the Tactical Air Operations Center (TAOC) and/or Early Warning/Control (EW/C).

    <u>Requirement</u>. Tour the TAOC and/or EW/C in a garrison or field environment.

Performance Standard. Complete a tour in the TAOC or EW/C.

Prerequisite. Lecture A-08.

CTRL-202   ATC   L

Goal. Introduce configuration and operation of an Air Traffic Control
Facility (ATCF).

Requirement. Tour an ATCF in a garrison or field environment.

Performance Standard. Complete a tour of an ATCF.

CTRL-203   LAAD   L

Goal. Introduce configuration and operation of the LAAD Bn.

Requirement. Tour the various configurations of the LAAD Bn at section,
platoon and battery level in a garrison or field environment.

Performance Standard. Complete a tour of a LAAD Bn.

CTRL-204   VMU   L

Goal. Be familiar with the configuration and operation of an operational
Marine Unmanned Aerial Vehicle (UAV) site.

Requirement. Tour an operational UAV site in a garrison or field
environment.

Performance Standard. Complete a tour of a UAV site.

Prerequisite. Lecture A-07.

CTRL-205   DASC   L

Goal. Conduct DASC operations in a Nuclear, Biological, and Chemical
(NBC) environment.

Requirement. In a garrison or field environment, while in MOPP-IV, at a
minimum rate of two sorties per hour for at least four hours implement
skills as a TAD or HD, including:

(1) Utilize SALT (Situation, Activity, Location, Tasking) brief when
    briefing aircraft
(2) Use proper RT/brevity codes.
(3) Maintain logbook and RIO log.
(4) Control/route/divert aircraft.
(5) Match available airborne assets with requests.
(6) Pass crew information.

Performance Standard. Properly conduct NBC operations.

CTRL-206E   E   L

Goal. Understand communication support equipment.

Requirement. Demonstrate knowledge of communications-electronics support equipment in a garrison or field environment without the use of references. Given a piece of communications equipment:

(1) State the proper nomenclature.
(2) State the frequency spectrum.
(3) State expected ranges and factors affecting range.
(4) State the power requirements.
(5) Demonstrate proper antenna configurations.
(6) State the associated cryptological equipment.
(7) State the owning unit for communications-electronics support equipment used by the DASC.
(8) Explain how a DASC uses communications-electronics support equipment.
(9) State what doctrinal nets the DASC would most commonly use for specified equipment.

Performance Standard. Pass a practical application test with a minimum score of 80%.

CTRL-207E   E   L

Goal. Understand motor transport/utilities support equipment.

Requirement. Without the use of references, understand how MT/UT support equipment is employed in a garrison or field environment. Given a piece of MT/UT equipment:

(1) State the proper nomenclature.
(2) State the power capabilities/requirements.
(3) Demonstrate proper hazardous material handling.
(4) Demonstrate proper environmental control unit configurations.
(5) State the relationship between utility equipment and specific DASC configurations.
(6) Identify rolling stock associated with the MASS.

Performance Standard. Pass a test with a minimum score of 80%.

CTRL-208E   4 HRS   E   L

Goal. Demonstrate common Core Skill Basic knowledge.

Requirement. Demonstrate common knowledge previously covered during core skill basic training. Attend lectures or read material in lectures A-01 through A-22 (except: A-16, A-17 and A-20), and C-04.

Performance Standard. Pass a test with a minimum score of 80%.

Prerequisite. Attend lectures A-01 through A-22 (except: A-16, A-17, A-20) and C-04.

3. Helicopter Direction (HD)

   a. Purpose. To develop proficiency in air support operations focusing

on air control and employment of rotary wing assets.

    b. Administrative Notes. Upon completion of this stage of the training syllabus, the Marine will be qualified as HD.

    c. Prerequisite. Complete the 100-level phase of this syllabus.

    d. Refresher Training. Refresher training is required for a previously qualfied controller who has not performed as an HD for 12 months or longer. The Controller will complete applicable R coded events in the 200 level syllabus.

    e. Crew Requirements. A DASC crew.

    f. Academic Training. Lectures that reinforce this training stage are A-01 through A-22 (except: A-16, A-17 and A-20), and C-04.

    g. Live and Simulator Event Training. It is encouraged to use as much live training as possible for HD events, 2 events.

HD-209ER   50 HRS   E,R   DASC   L/S

    Goal. Perform duties of a Helicopter Director (HD).

    Requirement. In a garrison or field environment at a minimum rate of two sorties per hour, under direct supervision of a qualified SAD and in compliance with established evaluation criteria, apply knowledge and procedures in a safe, orderly, and expeditious manner while on the HD position to include:

    (1) Parse a USMTF-formatted Air Tasking Order (ATO).
    (2) Conduct crew brief/debrief.
    (3) Utilize SALT (Situation, Activity, Location, Tasking) brief when
        briefing aircraft.
    (4) Use proper RT/brevity codes.
    (5) Maintain logbook and RIO log.
    (6) Control/route/divert aircraft.
    (7) Advise SAD on employment of available aviation assets.
    (8) Pass crew information.
    (9) Receive and route In Flight Report (IFREP)

    Performance Standard. Demonstrate proficiency required to be recommended for qualification as a HD. A qualified SAD will conduct evaluation. Refresher training is a minimum of 16 hours observed time by an SAD.

    Prerequisite. CTRL-200 through CTRL 208.

HD-210Q   8 HRS   Q   DASC   L/S

    Goal. Qualify as a Helicopter Director (HD).

    Requirement. In a garrison or field environment at a minimum rate of two sorties per, under direct supervision of a qualified SAD and in compliance with established evaluation criteria, apply knowledge and procedures in a safe, orderly, and expeditious manner while on the HD position.

Performance Standard. Perform event requirements in compliance with governing directives. A qualified DASC SAD will conduct evaluation.

Prerequisite. HD 209ER.

4. Tactical Air Direction (TAD)

a. Purpose. To develop proficiency in air support operations focusing on air control and employment of fixed wing assets.

b. Administrative Notes. Upon completion of this training stage, the Marine will be qualified as TAD.

c. Prerequisite. Complete the 100-level phase of this syllabus.

d. Refresher Training. Refresher training is required for a previously qualified controller who has not performed as a TAD for 12 months or longer. The Controller will complete applicable R coded events in the 200 level syllabus.

e. Crew Requirements. A DASC crew.

f. Academic Training. Lectures that reinforce this training stage are A-01 through A-22 (except: A-16, A-17 and A-20), and C-04.

g. Live and Simulator Event Training. It is encouraged to use as much live training as possible for TAD events, 2 events.

TAD-211ER   50 HRS   E,R   DASC   L/S

Goal. Perform as a Tactical Air Director (TAD).

Requirement. In a garrison or field environment at a minimum rate of two sorties per hour, under direct supervision of a qualified SAD and in compliance with established evaluation criteria, apply knowledge and procedures in a safe, orderly, and expeditious manner while on the TAD position, to include:

(1) Parse a USMTF-formatted Air Tasking Order (ATO).
(2) Conduct crew brief/debrief.
(3) Utilize SALT (Situation, Activity, Location, Tasking) Brief when
    briefing aircraft.
(4) Use proper RT/brevity codes.
(5) Maintain logbook and RIO log.
(6) Control/route/divert aircraft.
(7) Match available airborne assets with requests.
(8) Pass crew information.
(9) Receive and route IFREP.

Performance Standard. Demonstrate proficiency required to be recommended for qualification as a TAD. A qualified SAD will conduct evaluation. Refresher training is a minimum of 16 hours observed time by an SAD.

Prerequisite. CTRL-200 through CTRL 208.

TAD-212Q   8 HRS   Q   DASC   L/S

   Goal. Qualify as a Tactical Air Director (TAD).

   Requirement. In a garrison or field environment at a minimum rate of two
sorties per, under direct supervision of a qualified SAD and in compliance
with established evaluation criteria, apply knowledge and procedures in a
safe, orderly, and expeditious manner while on the HD position.

   Performance Standard. Perform event requirements in compliance with
governing directives. A qualified DASC SAD will conduct evaluation.

   Prerequisite. TAD 211ER.

133. CORE SKILL ADVANCED TRAINING

1. General

   a. This phase produces core competent leaders and crewmembers. The
personnel trained in the Core Skill Advanced phase are Marines a commanding
officer feels are capable of directing the actions of subordinates during
wartime scenarios and support the Crew Management core skill. Upon
completion of the Core Skill Advanced phase, individuals will be qualified
Senior Air Director (SAD). Individual Crew Management skills are learned and
mastered using a mix of live and simulation exercises.

   b. Administrative Notes. Complete MCI 25.40, Communication Plans and
Orders, prior to completing this phase of training.

   c. Core Skill Advanced Stage. Senior Air Director (SAD).

2. Senior Air Direction (SAD)

   a. Purpose. To develop proficiency in air support operations, DASC
employment, integration into the MACCS and coordination with elements of the
MAGTF. Upon completion of this portion of the training syllabus, the Marine
will be core skill advanced proficient and qualified as an SAD.

   b. Administrative Notes. Upon completion of this stage of training, the
Marine will be qualified as a SAD.

   c. Prerequisite. Complete the Core Skill Basic phase of this syllabus.

   d. Refresher Training. Refresher training is required for a previously
qualified SAD who has not performed as an SAD for a period of 24 months or
longer, unless designated as a DASC Senior Watch Officer (DSWO). The SAD
will complete applicable R coded events in the 200 level syllabus.

   e. Crew Requirements. A DASC crew.

   f. Academic Training. Lectures that reinforce this training stage are
A-17, and B-01 through B-26 (except B-09).

   g. Live and Simulator Event Training. It is encouraged to use as much
live training as possible for SAD events, 12 events.

SAD-300   4 HRS   TACC   L/S

   Goal. Introduce the current operations section of an operational Tactical
   Air Command Center (TACC).

   Requirement. Observe the Close Battle Cell, Senior Air Coordinator,
   Airspace, Deep Battle Cell, Fraggers and Senior Watch Officer.

   Performance Standard. Complete a tour in an operational TACC.

   Prerequisite. Lecture B-07.

SAD-301   MWCS   L/S

   Goal. Introduce the operations and equipment of a Marine Wing
   Communications Squadron (MWCS).

   Requirement. Tour an MWCS and understand its capabilities to include
   their organic single and multi-channel communications assets. Understand
   coordination and integration requirements.

   Performance Standard. Complete a tour of a MWCS.

   Prerequisite. Lecture B-13.

SAD-302   FSCC   L/S

   Goal. Introduce the configuration and operation of an operational Fire
   Support Coordination Center (FSCC).

   Requirement. Tour an operational FSCC in a field environment focusing on
   the duties of the FSC and the AO.

   Performance Standard. Complete a tour of an operational FSCC.

SAD-303   4 HRS   DASC   S/L

   Goal. Conduct DASC operations in a Nuclear, Biological and Chemical (NBC)
   environment.

   Requirement. In a Garrison or field environment, while in MOPP-IV as an
   SAD, perform the following additional skills:

   (1) Identify alternate command and control communications procedures.
   (2) Plan personnel rotations while in MOPP-IV.
   (3) Utilize NBC defense equipment as required.
   (4) Alert subordinate displaced elements.
   (5) Notify external agencies and aircraft.

   Performance Standard. Perform this event in compliance with local
   training guides, SOP and governing directives.

SAD-304E   40 HRS   E   DASC   S

   Goal. Plan and execute a DASC simulation.

   Requirement. In a garrison or field environment, implement skills to

plan, coordinate, and execute a DASC Simulation to meet local unit's training goals.

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. A qualified SAD will evaluate performance of this event.

Prerequisite. HD-209E or TAD-211E.

SAD-305   DASC   L

Goal. Assist in DASC site selection and communications emplacement.

Requirement. In a field environment implement skills in selection of a DASC site and emplacement of communications equipment, taking into consideration the following:

(1) Communications connectivity.
(2) FSCC coordination.
(3) Site security.
(4) Camouflage and dispersion.
(5) Advance Party/RSOP.
(6) Support equipment.
(7) Trafficability.
(8) Establishment of priorities for equipment emplacement.
(9) Echelon considerations.
(10) Identification of alternate sites.

Performance Standard. Explain site selection and communications emplacement with 80% accuracy.

SAD-306E   4 WKS   E   DASC   L

Goal. Perform as OIC of a MASS Detachment on a field deployment or MEU.

Requirement. Plan for and deploy as the OIC of a MASS Detachment.

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. A DASC OIC or OPS officer will evaluate this event. Time spent, as OIC on deployment is cumulative. An example is a Marine being the OIC for two exercises where the total deployed time is 4 weeks or more.

Prerequisite. HD 210Q and TAD 212Q.

SAD-307E   16 HRS   E   DASC   L/S

Goal. Perform as an Air Support Liaison Team (ASLT) OIC.

Requirement. Perform the following:

(1) Conduct brief/debrief.
(2) Advise supported unit on DASC capabilities/limitations.
(3) Conduct liaison with external agencies as required.
(4) Pass planned and scheduled fires to DASC.
(5) Advise air officer on employment of aviation assets.

Performance Standard. A qualified SAD will evaluate this event.

Prerequisite. HD-210Q and TAD-212Q.

External Syllabus Support. FSCC.

SAD-308E   4 HRS   E   DASC   L/S

Goal. Perform as a SAD during an Airborne DASC.

Requirement. Develop an understanding of the capabilities and limitations of equipment and employment options of a DASC (A) (to include aircraft specifics). Exhibit the skills as a SAD, including:

(1) Conduct crew brief/debrief.
(2) Maintain logbook.
(3) Conduct crew management and supervision.
(4) Match available aviation assets with requests.
(5) Pass crew information.
(6) Manage MAGTF information systems.
(7) Manage assigned radio nets.
(8) Coordinate with external agencies.
(9) Coordinate supporting arms integration.
(10) Phase control ashore as required.
(11) Conduct echelon operations as required.
(12) Assist OIC in planning, deployment, and retrograde of the DASC.

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. This event must be evaluated by a detachment OIC.

Prerequisite. HD-210Q and TAD-212Q.

External Syllabus Support. KC-130.

SAD-309ER   100 HRS   E,R   DASC   L/S

Goal. Perform as a Senior Air Director (SAD).

Requirement. In a garrison or field environment at a minimum rate of two sorties per hour, under direct supervision of a qualified SAD and in compliance with established evaluation criteria, apply knowledge and procedures in a safe, orderly, and expeditious manner while on the SAD position, to include:

(1) Conduct crew brief/debrief.
(2) Maintain logbook.
(3) Conduct crew management and supervision.
(4) Match available aviation assets with requests.
(5) Pass crew information.
(6) Manage MAGTF information systems.
(7) Manage assigned radio nets.
(8) Coordinate with external agencies.
(9) Coordinate supporting arms integration.
(10) Phase control ashore as required.
(11) Conduct echelon operations as required.
(12) Assist OIC in planning, deployment, and retrograde of the DASC.

Performance Standard. Demonstrate proficiency required to be recommended for qualification as a SAD. A qualified SAD will conduct evaluation. Refresher training is a minimum of 16 hours observed time by an SAD.

Prerequisite. HD-210Q and TAD-212Q.

SAD-310ER   E,R   L

Goal. Understand common Core Skill Advanced required knowledge.

Requirement. Be presented lectures A-17, and B-01 through B-26 (except B-09).

Performance Standard. Pass a test with a minimum score of 80%. Qualified SADs shall be re-tested on this event as part of refresher training.

Prerequisite. Lectures A-17 and B-01 through B-26 (except B-09).

SAD-316Q   8 HRS   Q   DASC   L/S

Goal. Qualify as a Senior Air Director (SAD).

Requirement. In a garrison or field environment at a minimum rate of two sorties per, under direct supervision of a qualified SAD and in compliance with established evaluation criteria, apply knowledge and procedures in a safe, orderly, and expeditious manner while on the SAD position.

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. A qualified DASC SAD WTI or MAWTS-1 DASC Instructor will conduct evaluation.

Prerequisite. HD 210Q, TAD 212Q and SAD 300-310.

External Syllabus Support. MAGTF.

134. CORE PLUS TRAINING

1. General

    a. This phase of training is reserved for large scale integrated missions and/or events having unique mission tasks supporting the Battle Management core skill. Personnel that complete this phase have achieved core plus skills and are capable of the most demanding combat tasks. In some cases, higher echelon supervisory position training and designations may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical/operational skill commensurate with this status on a daily basis.

    b. Core Plus Stage. DASC Senior Watch Officer (DSWO) Battle Manager.

2. DASC Senior Watch Officer (DSWO) Battle Manager

    a. Purpose. To develop an understanding of MAGTF Joint and Combined operations. Increase planning proficiency so as to serve as squadron ACE

planner.

    b. <u>Administrative Notes</u>. Complete Expeditionary Warfare Course (MCI 8600) resident or non-resident. Upon completion of this portion of the training syllabus, the Marine will be proficient in Battle Management.

    c. <u>Prerequisite</u>. Complete the 300-level phase of this syllabus.

    d. <u>Academic Training</u>. Lectures that reinforce this training stage are C-01 through C-06 (except C-04).

    e. <u>Live and Simulator Event Training</u>. It is encouraged to use as much live training as possible for DSWO events, 11 events.

DSWO-400E   24 HRS   E   TACC   L/S

    <u>Goal</u>. Operate in the Tactical Air Command Center (TACC).

    <u>Requirement</u>. In a field or garrison environment, perform in an operational billet in the TACC current operations.

    <u>Performance Standard</u>. Perform event requirements in compliance with governing directives. The SAC or SWO will evaluate event performance.

    <u>Prerequisite</u>. HD 210Q and TAD 212Q.

    <u>External Syllabus Support</u>. TACC.

DSWO-401   L/S

    <u>Goal</u>. Serve as a DASC liaison officer (DASC LNO) in the operations section of a joint and/or combined command and control organization.

    <u>Requirement</u>. In a garrison or field environment perform as a DASC LNO to a joint and/or combined command and control organization.

    <u>Performance Standard</u>. Perform the duties of a liaison officer per SOP and governing directives.

    <u>Prerequisite</u>. HD-210Q or TAD-212Q.

    <u>External Syllabus Support</u>. Joint and/or Combined Command and Control Organization.

DSWO-402   ACE   L/S

    <u>Goal</u>. Conduct operational planning for ACE operations.

    <u>Requirement</u>. In a garrison or field environment as a representative to the MACG or ACE staff, accomplish the following:

    (1) Assist in the planning of aircraft control.
    (2) Assist in the planning of airspace management.
    (3) Provide liaison between ACE and GCE.

    <u>Performance Standard</u>. Perform operational planning for ACE operations per SOP and governing directives.

   Prerequisite. SAD-316Q.

   External Syllabus Support. ACE.

DSWO-403   L/S

   Goal. Conduct operational planning for joint and/or combined operations.

   Requirement. In a garrison or field environment as a representative to a joint and/or combined staff, accomplish the following:

   (1) Assist in the planning of aircraft control.
   (2) Assist in the planning of airspace management.

   Performance Standard. Perform operational planning for joint and/or combined operations per SOP and governing directives.

   Prerequisite. SAD-316Q, recommend INST-518.

   External Syllabus Support. TAGS.

DSWO-404   AOC   L/S

   Goal. Introduce configuration and operation of an operational Air Operations Center (AOC).

   Requirement. Tour an operational AOC site in a garrison or field environment.

   Performance Standard. Complete a tour of an AOC.

   External Syllabus Support. AOC.

DSWO-405   MACG DET   L

   Goal. Perform as OIC of a MACG detachment on a field deployment or MEU.

   Requirement. Plan for and deploy as OIC of a MACG detachment.

   Performance Standard. Perform the duties of the OIC of a MACG detachment per SOP and governing directives. The operations officer or commanding officer will evaluate this event.

   Prerequisite. None, however SAD-316Q and DSWO-418E are recommended.

   External Syllabus Support. MACCS.

DSWO-406E   E   L

   Goal. Understand Core Plus required knowledge.

   Requirement. Pass a written test of lectures C-01 through C-05 without the aid of references.

   Performance Standard. Pass a test with a minimum score of 80%.

   Prerequisite. SAD 310ER.

DSWO-414   DASC   L/S

    <u>Goal</u>. Perform as a DASC Liaison Officer (DASC LNO).

    <u>Requirement</u>. Perform the duties of a DASC LNO. Normally a DASC LNO is an ASCO who has completed the core skill basic phase and displays the maturity to operate independently in support of the DASC mission. The DASC LNO will be able to relate DASC procedures, capabilities and limitations to external agencies.

    <u>Performance Standard</u>. Perform the duties of the DASC LNO per SOP, guides and governing directives, as well as those duties directed by designating authority.

    <u>Prerequisite</u>. HD-210Q and TAD-212Q.

DSWO-418   DASC   L/S

    <u>Goal</u>. Provide formal battle management instruction to DASC personnel.

    <u>Requirements</u>. As a qualified WTI, provide formal instruction to DASC personnel. Assignment as the WTTP Officer is not required.

    <u>Performance Standard</u>. Perform event per MCO 3500.12C (WTTP).

    <u>Prerequisite</u>. INST 518.

DSWO-420   DASC   L/S

    <u>Goal</u>. Perform the duties of DASC Senior Watch Officer (DASC SWO).

    <u>Requirement</u>. In garrison or in the field, perform the duties of a DASC SWO to include air command and control per SOP, guides and governing directives.

    <u>Performance Standard</u>. Perform event per guidelines in unit SOP, MCWP 3-25, MCWP 3-25.5. An officer is designated as a DASC SWO by the MASS CO, see DESG-620.

    <u>Prerequisite</u>. Must be a MOS 7202 WTI or a qualified WTI SAD.

140. <u>INSTRUCTOR (INST) TRAINING</u>

1. <u>General</u>

    a. <u>Purpose</u>. To qualify an individual as a Weapons and Tactics Instructor (WTI) – Air Control. The MAWTS-1 Course Catalog shall be referenced for instructor workup and certification events. Upon completion of the WTI curriculum, the officer is designated as a WTI – Air Control and is assigned designation MOS 7277.

    b. <u>Prerequisites</u>. SAD-316Q.

    c. <u>Live and Simulator Event Training</u>. 1 event.

INST-518   MACCS   L

   Goal. Qualify as a Weapons and Tactics Instructor (WTI) – Air Control.

   Requirement. See MAWTS-1 Course Catalog for requirements.

   Performance Standard. Graduate from the WTI course and be certified by
   MAWTS-1 as a WTI – Air Control.

150. QUALIFICATIONS AND DESIGNATIONS

1. General

   a. This phase contains tracking codes and events designed to facilitate
training management and provide community training standardization.

   b. The 600-level stages are known as Qualification and Designation.

2. ASCO Qualifications

   a. General. Qualification is a status assigned to personnel based on
demonstrated proficiency in a specific skill. Qualification codes do not
constitute events themselves. They will be logged upon completion of
qualification requirements, signing of the qualification letter by the
commander, and filing it in the MACCS performance training record, as well as
completion of required administrative actions. Loss of proficiency for all
associated qualification events constitutes loss of that qualification.
Refer to the Core Skills (Basic and Advanced) and Core Plus phases for
qualification requirements.

   b. Helicopter Director (HD). An HD is qualified upon completion of
required Core Skill Basic phase events. An entry shall be made in the
individual MACCS performance training record stating the qualification.

   c. Tactical Air Director (TAD). A TAD is qualified upon completion of
required Core Skill Basic phase events. An entry shall be made in the
individual MACCS performance training record stating the qualification.

   d. Senior Air Director (SAD). An SAD is qualified upon completion of
required Core Skill Advanced phase events. An entry shall be made in the
individual MACCS performance training record stating the qualification.

   e. Weapons and Tactics Instructor (WTI) – Air Control. A WTI is
qualified upon completion of required Core Skill Instructor phase events. An
entry shall be made in the individual MACCS performance training record
stating the qualification.

QUAL-610   L

   Goal. Qualify as a HD.

Prerequisite. HD-210Q.

QUAL-612   L

Goal. Qualify as a TAD.

Prerequisite. TAD-212Q.

QUAL-616   L

Goal. Qualify as a SAD.

Prerequisite. SAD-316Q.

QUAL-618   L

Goal. Qualify as a WTI – Air Control.

Prerequisite. INST-518.

3. ASCO Designations. A designation is a command specific, one-time occurrence and remains in effect until removed for cause. Designation codes do not constitute events themselves. They will be logged upon receipt of a letter signed by the commander, filed in the MACCS performance training record and other administrative actions taken as appropriate. Refer to the Core Skill Basic, Advanced, and Core Skill Plus phases for designation requirements.

     (a) DASC Liaison Officer (DASC LNO). An Air Support Control Officer who has completed the Core Skill Basic phase and displays the maturity to operate independently in support of the DASC mission is designated as a DASC LNO. The DASC LNO should be trained to relate DASC procedures, capabilities and limitations to external agencies. An entry shall be made in the individual MACCS performance training record stating the designation.

     (b) DASC Senior Watch Officer (DSWO). An Air Command and Control Officer (7202) serving in a MASS or a qualified DASC SAD may be designated as a DSWO by the commanding officer based on individual operational experience, background, expertise and completion of required core plus phase events. Prior to consideration, the individual must be qualified as a WTI – Air Control. Core plus event completion and additional courses are encouraged and will be considered for DSWO designation. An entry shall be made in the individual MACCS performance training record stating the designation.

DESG-614   L

Goal. Designate as a DASC LNO.

Prerequisite. HD-210Q and TAD-212Q, recommend DSWO-414.

DESG-620   L

Goal. Designate as a DSWO.

Prerequisite. INST 518, recommend DSWO-420.

160. EXPENDABLE ORDNANCE REQUIREMENTS. None.

170. PROFICIENCY INTERVALS. Tables 1-13, 1-14 and 1-15 contain a summary of each event code to include conditions and proficiency intervals for the Core Skills Basic, Core Skills Advanced and Core Plus phases.

Table 1-13. – ASCO Proficiency Interval for Core Skill Basic Training.

STAGE/EVENT	PROFICIENCY INTERVAL (Months)	CRP	CONDITIONS & REMARKS
CTRL-200	0	1.0	L/S
CTRL-201	0	1.0	L/S
CTRL-202	0	1.0	L/S
CTRL-203	0	1.0	L/S
CTRL-204	0	1.0	L/S
CTRL-205	0	1.0	L/S
CTRL-206E	0	1.0	L/S
CTRL-207E	0	1.0	L/S
CTRL-208E	0	1.0	L
HD-209E	12	1.0	L/S
HD-210Q	0	2.0	L/S
TAD-211E	12	1.0	L/S
TAD-212Q	0	2.0	L/S
E= Evaluation of performance for Qual recommendation. Q = Qualification.			

Table 1-14. – ASCO Proficiency Interval for Core Skill Advanced Training.

STAGE/EVENT	PROFICIENCY INTERVAL (Months)	CRP	CONDITIONS & REMARKS
SAD-300	0	1.0	L/S
SAD-301	0	1.0	L/S
SAD-302	0	1.0	L/S
SAD-303	0	1.0	L/S
SAD-304E	0	1.0	L/S
SAD-305	0	1.0	L/S
SAD-306E	0	3.0	L/S
SAD-307E	0	1.0	L/S
SAD-308E	0	2.0	L/S
SAD-309ER	12/24	3.0	L/S
SAD-310ER	24	1.0	L
SAD-316Q	0	4.0	L/S
E= Evaluation of performance for Qual recommendation. Q = Qualification. R = Refresher events, as required.			

Table 1-15. – ASCO Proficiency Interval for Core Plus Training.

STAGE/EVENT	PROFICIENCY INTERVAL (Months)	CRP	CONDITIONS & REMARKS
DSWO-400E	0	.1	L/S
DSWO-401	0	.1	L/S
DSWO-402	0	.1	L/S
DSWO-403	0	.1	L/S
DSWO-404	0	.1	L/S
DSWO-405E	0	.4	L/S
DSWO-406E	0	.4	L
DSWO-414	0	.7	L/S
DSWO-418E	0	2.0	L/S
DSWO-420	0	1.0	L/S
E= Evaluation of performance for Qual recommendation.			

171. EVENT UPDATE CHAINING. Table 1-16 contains event update chaining.

Table 1-16. – ASCO Event Update Chaining.

EVENT	EVENTS UPDATED	EVENT	EVENTS UPDATED
SAD-308E	HD-209ER TAD-211ER	DSWO-406E	SAD-310ER
SAD-309ER	HD-209ER TAD-211ER	DSWO-418E	HD-210Q TAD-212Q SAD-309ER SAD-310ER SAD-316Q
SAD-316Q	HD-210Q, TAD-212Q SAD-309ER, SAD-310ER		
E= Evaluation of performance for recommendation of Qual. Q = Qualification. R = Refresher events.			

180. EVENT CONVERSION MATRIX. An event conversion matrix is provided as a reference to facilitate the conversion of the former DASC T&R event codes to the new event codes now outlined within this chapter, see appendix C.

CHAPTER 2

AIR SUPPORT OPERATIONS OPERATOR (ASOO)
(MOS 7242)

FIGURE

TABLES

CHAPTER 2

AIR SUPPORT OPERATIONS OPERATOR (ASOO)
(MOS 7242)

200. UNDERLINE UNIT CORE COMPETENCY

1. Purpose

    a. This training and readiness (T&R) directive represents the
collaborative effort of Direct Air Support Center (DASC) subject matter
experts who designed training standards to maximize the full combat
capabilities of Marine Air Support Squadron (MASS). These standards,
intrinsic in the core competency section, describe and define unit
capabilities and requirements necessary to maintain MASS proficiency in core
skills and combat leadership. Training events are based on specific
requirements and performance standards to ensure crews maintain a common base
of training and depth of combat capabilities. The T&R comprises a building
block approach to ensure trained crews remain ready, relevant, and fully
capable of supporting the Marine Air Ground Task Force (MAGTF) commander.

    b. The capabilities defined and described in the core competency model
are provided to ensure each MASS maintains a common base of training and
depth of capabilities. Commanders are encouraged to pursue additional
training to increase the unit's warfighting capability above the base level;
however, it is incumbent upon the commander to balance any additional
training against the long-term health and readiness of the unit while staying
within resource constraints.

2. Direct Air Support Center (DASC) Mission. Support the MAGTF commander by
processing immediate air support requests; integrating aircraft employment
with other supporting arms; managing terminal control assets supporting the
MAGTF; and controlling assigned aircraft, unmanned aerial vehicles (UAVs),
and itinerant aircraft transiting through DASC controlled airspace.

3. Mission Essential Tasks (METs)

    a. (UJTL TA 1.1.4) Conduct Sea and Air Deployment operations.
        -Conduct amphibious/expeditionary operations to include the
        capability to phase control ashore.

    b. (UJTL TA 3.3) Coordinate Battlespace Maneuver and Integrate with
firepower.
        -Receive, process and coordinate requests for immediate direct air
        support.
        -Coordinate the execution of direct air support missions with other
        supporting arms.
        -Manage terminal control assets through the allocation of
        frequencies, aircraft and personnel in conjunction with supported
        elements.
        -Plan, install, operate and maintain an airborne command and control
        capability to conduct direct air support operations.

    c. (UJTL TA 5) Exercise Command and Control.
        -Coordinate the execution of preplanned and immediate direct air
        support.

-Conduct liaison to facilitate direct air support operations, as necessary.
-Maintain continuous DASC functions while displacing.
-Control assigned and itinerate aircraft, to include UAVs.

   d. (UJTL TA 5.2.1) Establish, Operate and Maintain Baseline Information Exchange.
-Plan, install, operate and maintain communications to conduct direct air support operations.

   e. (UJTL TA 7.1) Conduct Mission Operations in a CBRNE Environment.
-Conduct combat operations in an NBC environment.

4. Table of Organization (T/O). Total Force Structure Division (TFSD) and Marine Corps Combat Development Command (MCCDC) manage T/Os. Table 2-1 depicts DASC T/Os authorized as of the date of this directive.

Table 2-1. -- DASC T/O 8660[1].

MASS UNIT
Officers – 4 (7202)
– 30 (7208)
Enlisted – 69 (7242)

DASC	AIRBORNE DASC
Officers – 3 (7202)	Officers – 1 (7202)
– 15 (7208)	– 8 (7208)
Enlisted – 46 (7242)	Enlisted – 12 (7242)
DASC ASE[2]	**DASC ASLT**
Officers – 4 (7208)	Officers – 3 (7208)
Enlisted – 8 (7242)	Enlisted – 3 (7242)

Note 1: Maintenance and support personnel assigned to each DASC element are not listed.
Note 2: Denotes OCONUS and CONUS MEU Detachments.

5. Core Capability. A core capable MASS is able to field, at minimum, a DASC with an echelon, an airborne extension and Air Support Liaison Teams (ASLT) and is capable of processing immediate air support requests, integrating aircraft and UAV employment with other supporting arms, managing terminal control assets and procedurally controlling aircraft operating in its area of responsibility.

   a. Core Capable DASC. A core capable DASC is able to process immediate air support requests, integrate aircraft and UAV employment with other supporting arms, manage terminal control assets, and procedurally control aircraft operating in its area of responsibility. Crew composition is task-organized based on mission. Number of crews required is driven by operational hours and operational situation. An echelon capability ensures continuous DASC operations while the DASC is displacing. The echelon is a

part of the DASC T/O and will be task organized. The echelon can normally fulfill the DASC mission for a limited duration. The number of echelon crews required is driven by operational situation and hours of operations.

> DASC Crew
> DASC Senior Watch Officer (DSWO).
> Senior Air Director (SAD).
> Crew Chief (CC).
> Tactical Air Director (TAD).
> Helicopter Director (HD).
> Tactical Air Request/Helicopter Request (TAR/HR) Net Operator (x2).
> TAC Net Operator.
> DAS Net Operator.
> FSC Net Operator.
> Plotter (x3).

   b. Core Capable DASC Airborne (DASC(A)). A core capable DASC(A) serves as an airborne extension of the DASC. The operational period is limited by the aircraft time on station. Crew composition is task-organized based on mission.

> DASC(A) Crew
> Senior Air Director (SAD).
> Crew Chief (CC).
> Tactical Air Director (TAD).
> Helicopter Director (HD).
> TAR/HR Net Operator.
> TAC/DAS Net Operator.
> FSC Net Operator.

   c. Core Capable Air Support Liaison Team (ASLT). A core capable ASLT provides face-to-face coordination between the DASC and FSCC. It facilitates the effective coordination and integration of direct air support missions with the employment of other supporting arms.

> ASLT Crew
> Tactical Air Director/Helicopter Director (TAD/HD).
> FSC Net Operator.

   d. Core Capable Air Support Element (ASE). A core capable ASE is a task-organized element employed by a MEU. The ASE is not a DASC but is capable of assisting in the control of airborne assets for a limited period of time in a limited area. Normally the ASE performs this function for the landward portion of an amphibious objective area.

> ASE Crew
> Senior Air Director (SAD).
> Tactical Air Director/Helicopter Director (TAD/HD).
> Crew Chief (CC).
> FSC Net Operator.
> TAR/HR Net Operator.
> Plotter.

6. MET/Core Skills. Core skills shall be a determining factor in developing T&R training requirements; core skills abbreviations are listed in table 2-2. Core skills directly support the METs for each unit, see table 2-3 below. Special skills and training requirements must receive appropriate

prioritization and emphasis based on the training need and the likelihood of those types of missions being assigned during operations.

Table 2-2. —- Core Skills Abbreviations.

CORE SKILL	ABBREVIATION
AIR CONTROL	CTRL
CREW MANAGEMENT[1]	CM
BATTLE MANAGEMENT	BM
AIR SUPPORT NET OPERATIONS	ASNO

Table 2-3. -- Core Skill and METL Matrix.

MISSION ESSENTIAL TASK LIST	CORE SKILLS			CORE PLUS
	CTRL	CM	ASNO	BM
Conduct Sea and Air Deployment operations	X	X	X	X
Coordinate Battlespace Maneuver and Integrate with firepower.		X	X	X
Exercise Command and Control	X	X	X	X
Establish, operate and maintain baseline information exchange	X	X	X	X
Conduct Mission Operations in a CBRNE Environment	X	X	X	X

7. Core Model Minimum Requirements (CMMR). The squadron core competency reflects minimum level of competency a DASC crew must achieve to perform its core capability. DASC core competency is measured in terms of minimum Core Skill Proficiency (CSP) and minimum number of DASC combat leaders.

    a. Minimum Unit CSP Requirements. As a minimum, in order to be considered core competent, a unit must have DASC personnel who are proficient in each core skill (unit CSP) as indicated in table 2-4. In order for an individual to be considered proficient in a core skill (individual CSP), personnel must attain proficiency in core skill events, as noted in paragraphs 7a(1) and 7a(2) and delineated in tables 2-5 and 2-6. DASC personnel will maintain proficiency in core skill events as delineated in table 2-7.

Table 2-4. -- Minimum Unit CSP Requirements.

	DASC		DASC(A)		ASLT		ASE	
CORE SKILL	**7208/7202 (7277)**	**7242 (7277)**	**7208/ 7202**	**7242 (7277)**	**7208**	**7242**	**7208**	**7242**
CM	3/0	3	2/1	2	NA	NA	NA	NA
CTRL	6/0	NA	3/0	NA	3	NA	2	NA
ASNO	NA	12	NA	4	NA	2	NA	2
CORE PLUS								
BM	(1)/(1)	(1)	NA	(1)	NA	NA	NA	NA
Note: To obtain unit CSP, applicable core skill and core plus events is required.								

       (1) <u>Events Required to Attain Individual CSP</u>. To initially <u>attain</u> CSP, DASC personnel must complete the 100-level and all T&R events listed in tables 2-5 and 2-6 below for each core skill. Attain events shall not be waived. Units shall use evaluation forms maintained by the T&R sponsor, MAWTS-1 DASC Div DSN 269-3358.

Table 2-5. —- Attain Individual Core Skill Basic.

CORE SKILL BASIC (ASNO)							
	FSC	**TRHR**	**TCDS**	**PLOT**	**DASC**	**ASNO**	**CC**
EVENTS	200 201Q	202 203 204Q	205 206Q	207 208Q	209 210 211 212 213 214 215E	216Q	NA
E= Evaluation of performance for Qual recommendation Q = Qualification							

Table 2-6. —- Attain Individual Core Skill Advanced.

CORE SKILL ADVANCED (CC)						
	FSC	**TRHR**	**TCDS**	**PLOT**	**DASC**	**ASNO**	**CC**
EVENTS	NA	NA	NA	NA	NA	NA	300R 301 302 303 304R 305R 306 307 308R 309R 310R 311Q
Q = Qualification			R = Refresher events			

       (2) <u>Events Required to Maintain Individual CSP</u>. To maintain CSP, DASC personnel must complete all T&R events listed in table 2-7 for that core skill.   There are no Core Skill Basic events required to be maintained, therefore only Core Skill Advanced events are listed in the table below. Units shall use evaluation forms maintained by T&R sponsor, MAWTS-1 DASC Div DSN 269-3358.

Table 2-7. —- Maintain Individual Core Skill Advanced.

CORE SKILL ADVANCED (CC)						
	FSC	**TRHR**	**TCDS**	**PLOT**	**DASC**	**ASNO**	**CC**
EVENTS	NA	NA	NA	NA	NA	NA	300R 304R 305R 308R 309R 310R
R = Refresher events							

b. <u>Minimum Combat Leadership Requirements</u>. As a minimum, in order to be considered core competent, a unit must have DASC personnel with the leadership designations listed in table 2-8.

Table 2-8. -- Minimum Combat Leadership Requirements.

COMBAT LEADERSHIP	DASC	DASC(A)	ASLT	ASE
Senior Watch Officer (SWO)	1	0	0	0
Senior Air Director (SAD)	4	3	0	0
Crew Chief (CC)	4	3	0	0
Totals	**9**	**6**	**0**	**0**
Note: Detachment OICs and SNCOICs are not reflected in this table.				

8. <u>Qualifications and Designations</u>. Tables 2-5, 2-6 and 2-7 delineate T&R events required to be completed in order to attain initial qualifications, re-qualifications, and designations. ASOOs do not have designations requirements. All stage lectures, briefs, squadron training and prerequisites shall be complete prior to completing final events. Qualification letters signed by the commander or direct representative shall be placed in the individual MACCS performance training record. Loss of proficiency in all qualification events of a core skill causes the associated qualification to be lost. Regaining the qualification requires completing all R-coded syllabus events associated with the qualification.

a. <u>Qualification</u>. A qualification is a status assigned to personnel based on demonstrated proficiency in a specific skill. Qualification codes are 600 level codes and do not constitute events themselves. Qualifications will be logged upon completion of qualification requirements; the qualification letter has been signed by the commander or his direct representative, filed in the MACCS performance training record and other administrative actions taken as appropriate. Loss of proficiency for all associated qualification events constitutes loss of that qualification. Re-qualification requires demonstrated proficiency in "R" coded events. Refer to the Core Skill (Basic and Advanced) and Core Plus phases for qualification requirements. All ASNO qualifications are one-time required events. Table 2-9 lists ASOO qualifications.

Table 2-9. —- ASOO Qualifications.

QUALIFICATION	REQUIREMENTS	TRACKING CODE
Fire Support Coordinator	FSC-201Q	QUAL-601
Tactical Air/Helicopter Request Operator	TRHR-204Q	QUAL-604
Tactical Air Coordinator/ Direct Air Support Operator	TCDS-206Q	QUAL-606
Plotter	PLOT-208Q	QUAL-608
Air Support Net Operator	ASNO-216Q	QUAL-616
Crew Chief	CC-311Q	QUAL-611
Q = Qualification		

    b. <u>Designation</u>. A designation is a status assigned to an individual based on leadership ability (see table 1-11). It is command specific and remains in effect until removed for cause, rescinded at the commander's discretion, or the individual is transferred out of the command. Commanders shall issue the individual a designation letter for inclusion in the MACCS performance training record. Currently there is no ASOO designations.

    c. <u>Instructor Requirements</u>. As a minimum, a unit should maintain instructor designations to support DASC operations (see table 1-13). Instructor designations are outlined in the MAWTS-1 Course Catalog and MCO 3500.12C (WTTP), and governing directives.

    d. <u>Instructor Requirements</u>. As a minimum, a unit should maintain Weapons and Tactics Instructor (WTI) – Air Control designations to support DASC operations (see table 1-12). Crew Chiefs receive MOS 7277 upon completion of WTI course. Must be Crew Chief Qualified before attending WTI. The completion certificate shall be placed in the individual MACCS performance training record. Instructor designations are outlined in the MAWTS-1 Course Catalog and MCO 3500.12C (WTTP), and governing directives.

Table 2-10. – Instructor Qualifications.

Qualification	REQUIREMENT	TRACKING CODE
WTI – Air Control	INST-518	QUAL-618

9. <u>AIR SUPPORT OPERATIONS OPERATOR (ASOO) TRAINING PROGRESSION MODEL</u>

    a. A progression model depicts the logical training progression of qualifications for ASOO personnel within a DASC unit. The base of each model contains those events and qualifications an individual attains as an ASOO. The highest tier of the progression model contains qualifications held by only the most experienced personnel within a unit. The training progression model for the ASNO is depicted in figure 2-1.

    b. This training progression model provides training officers with a valuable tool to develop training plans. With a clear progression of qualifications delineated, and an emphasis on the qualification of Core Skill Basic and Core Skill Advanced personnel, training officers have the ability to produce viable training plans. Units will use the model as a point of departure to generate weekly, monthly, quarterly and annual training plans.
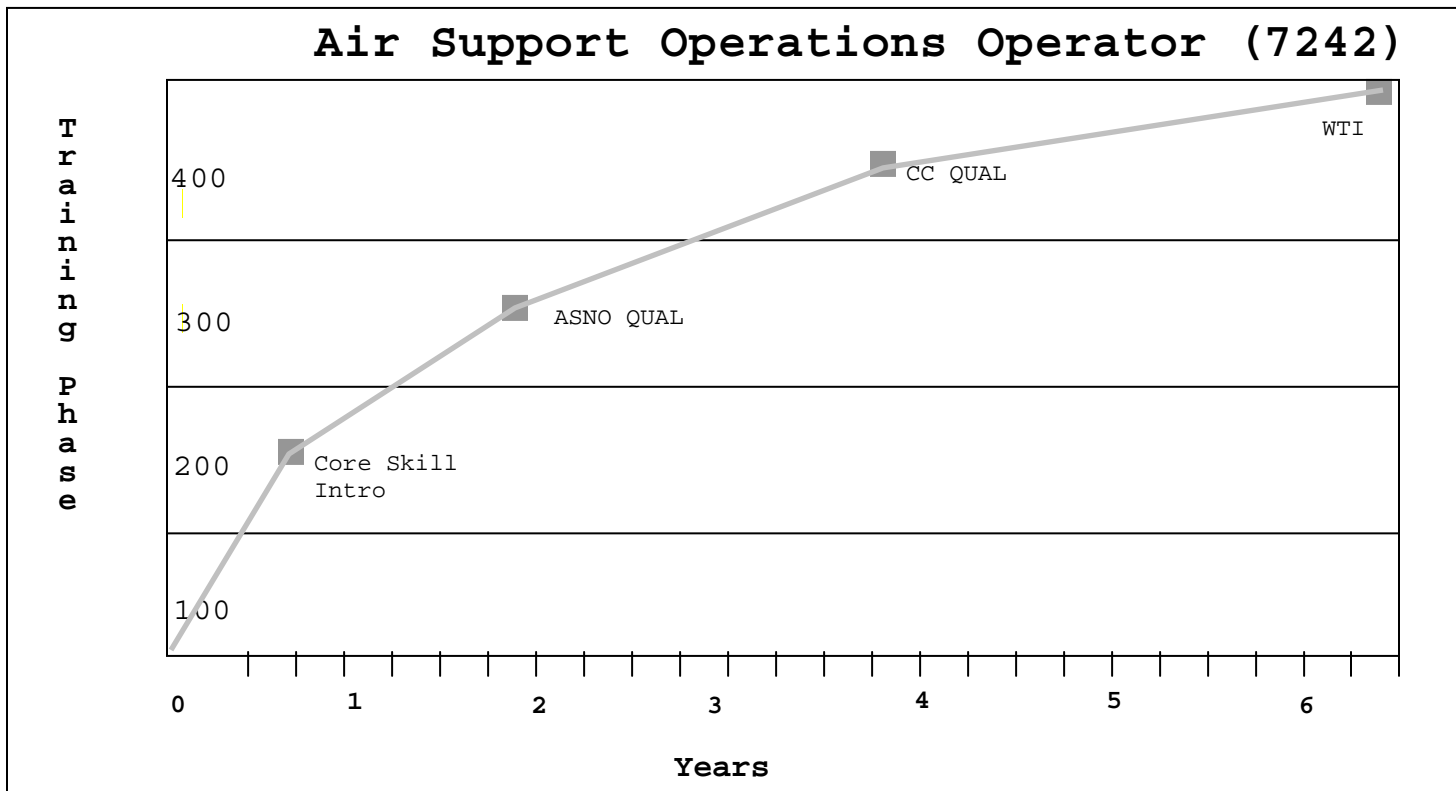
Air Support Operations Operator (7242)

Figure 2-1. -- Air Support Operations Operator Training Progression Model.

201. PROGRAMS OF INSTRUCTION (POI)

1. Basic POI for ASOO

Weeks	Course/Phase	Activity
1-10	Air Support Net Operator Course (ASNO) /Core Skill Introduction	MCCES
11-114	Air Support Net Operator (ASNO)/Core Skill Basic	MASS
115-219	Crew Chief/Core Skill Advanced	MASS
220-324	Core Plus	MASS

2. Refresher POI for ASOO

Weeks	Course/Phase	Activity
2	CC/Core Skill Advanced	MASS

3. DASC WTI Crew Chief

WEEKS	COURSE/PHASE	ACTIVITY
7	WTI/Air Control	MAWTS-1

202. BASIC POI TRAINING

1. Core Skill Introduction Training

STAGE	EVENTS	PERCENT
ASOOC	10	60.00%
TOTAL	**10**	**60.00%**

2. Core Skill Basic Training

STAGE	EVENTS	PERCENT
FSC	2	2.5
TRHR	3	3.0
TCDS	2	2.5
PLOT	2	2.5
DASC	7	4.0
ASNO	1	0.5
TOTAL	**17**	**15.00**
ACCUMULATED TOTAL	**27**	**75.00**

3. Core Skill Advanced Training

STAGE	EVENTS	PERCENT
CC	12	20.00
TOTAL	**12**	**20.00**
ACCUMULATED TOTAL	**39**	**95.00**

4. Core Plus Training

STAGE	EVENTS	PERCENT
ASNO	**1**	**1.0**
DASC	**7**	**0.9**
BM	**4**	**3.1**
TOTAL	**12**	**5.00**
ACCUMULATED TOTAL	**51**	**100.00**

203. REFRESHER POI TRAINING

1. Core Skill Basic Phase – There are no refresher training requirements for core skill basic events.

2. Core Skill Advanced Phase

STAGE	EVENTS	HOURS
CM (CC 300R, CC 305R, CC 306R, CC 309R, CC 310R)	5	4
TOTAL:	5	4

210. <u>ACADEMIC TRAINING</u>

1. Academic training shall be conducted for each phase/stage of the syllabus. Commanders are strongly encouraged to incorporate the lectures in appendix A into their training plans. Where indicated, standardized academic training materials exist and may be obtained from the sponsoring activity.

2. External academic courses of instruction required to complete the syllabus are listed below.

Course	Activity
Weapons and Tactics Instructors (WTI) Course	MAWTS-1
Air Operations Center (AOC) Initial Qualification	MAWTS-1
Advanced Field Artillery Tactical Data System	RgtSchls/FtSill,OK
Command and Control Personal Computer	Wing/Division
Training (IQT), Offensive (OFF) Course	505th TSR
AOCIQT Plans/Ops Technician Course	Hurlburt Field, FL
Joint Firepower Course	Nellis AFB, NV
Joint Air Tasking Order Process Course	505th TSR
Joint Tactical Info Distribution Systems	Ft McPherson, GA
Multi-TADIL Advanced Joint Interoperability Course	Ft McPherson, GA

3. <u>References</u>. References provided in appendix B should be utilized to ensure safe and standardized training procedures, performance standards, grading criteria and equipment operations.

230. <u>EVENT PERFORMANCE REQUIREMENTS</u>

1. The purpose of this section is to provide the commander with standardized programs of instruction for all DASC personnel. The goal is to develop unit warfighting capabilities, not to measure the proficiency of individuals. Syllabi are based on specific performance standards designed to ensure proficiency in core competencies. An effective T&R program is the first step in providing the MAGTF commander with an Aviation Combat Element (ACE) capable of accomplishing any and all of its stated missions. The T&R program provides the fundamental tools for commanders to build and maintain unit combat readiness. Using these tools, training managers can construct and execute an effective training plan that supports the unit METs.

2. Unit training management is the application of the Marine Corps Training Principles and the Systems Approach to Training to satisfy the training requirements of commanders at all levels in order to accomplish their wartime mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in MCRP 3-0A, <u>*Unit Training Management Guide*</u>, and formed the basis for the development of this T&R Directive. Familiarity with MCRP 3-0A will enhance understanding of the Systems Approach to Training used in T&R development and Marine Corps UTM principles.

3. <u>MACCS Integrated System Training</u>. All elements of the MACCS shall maintain the capability to effectively function as part of an integrated airspace command and control system. In that large exercises may not always offer sufficient training opportunity for all crew members, and in many cases do not offer sufficient latitude to refine capability upon arrival, the MACCS

should conduct MACCS Integrated System Training Exercises (MISTEX) on a regular basis to qualify units and personnel per their respective T&R syllabus. MISTEXs should focus on the establishment of necessary communications and data links between MACCS agencies, and incorporate sufficient simulation and Marine Simulation Events List (MSEL) items to exercise and analyze system integration, crew coordination, and critical information flow wherever possible. Tactical Digital Link (TDL) capable agencies should conduct frequent "Link" training exercises to maintain proficiency.

231. <u>CORE SKILL INTRODUCTION TRAINING</u>

1. <u>General</u>

    a. This phase provides classroom entry-level instruction to develop the basic skills necessary for a Marine with MOS 7242 to be qualified as a basic ASNO. This training is complete upon graduation from the Air Support Operations Operator Course located in 29 Palms, CA. Upon completion ASNO will be 60% core skill trained.

    b. <u>Core Skill Introduction Stage</u>. Systems (SYS).

2. <u>System (SYS)</u>

    a. <u>Purpose</u>. To develop basic knowledge of DASC procedures and operations. Completion of Air Support Operations Operator Course at Marine Corps Communication-Electronics School (MCCES), 29 Palms, CA is mandatory to satisfy this requirement.

    b. <u>Prerequisite</u>. GT of 100, secret clearance, normal color vision and U.S. citizenship.

    c. <u>Academic Training</u>. Formal school.

    d. <u>Classroom and Simulator Event Training</u>. All System training will be conducted in a classroom environment. Practical application will be primarily simulated with limited live events, (10 events).

SYS-100E   E   L

    <u>Goal</u>. Understand air support communications equipment.

    <u>Requirement</u>. Without the aid of reference, identify the following:

    (1) Nomenclature.
    (2) Frequency spectrum.
    (3) Range.
    (4) Power requirements.
    (5) Antenna configurations.

    <u>Performance Standard</u>. Pass a test with a minimum score of 80%.

    <u>Prerequisite</u>. Lecture 4.02.

SYS-101E   E   L

    <u>Goal</u>. Conduct authentication, encryption, and decryption.

Requirement. In the classroom and without the aid of reference, perform the following:

(1) Encrypt information.
(2) Decrypt information.
(3) Authenticate.

Performance Standard. Pass a test with a minimum score of 80%.

Prerequisite. Lecture 2.05.

SYS-102E   E   L

Goal. Accurately plot coordinates.

Requirement. In the classroom with a map, perform the following:

(1) Find a four-digit UTM coordinate.
(2) Find a six-digit UTM coordinate.
(3) Find an eight-digit UTM coordinate.
(4) Locate a Latitude/Longitude coordinate.
(5) Plot friendly/enemy units using appropriate symbols.
(6) Plot DASC specific symbols (JTAR, ASR, etc.)
(7) Complete mission data on status boards (TAD/HD).

Performance Standard. Pass a test with a minimum score of 80%.

Prerequisite. Lectures 3.03 and 3.04.

SYS-103E   E   L

Goal. Receive and process JTARs and ASRs.

Requirement. In the classroom and without the aid of references, conduct the following:

(1) Receive and process JTARs. Assign appropriate request number and complete the form.
(2) Receive and process ASRs. Assign appropriate request number and complete the form.

Performance Standard. Pass a test with a minimum score of 80%.

Prerequisite. Lectures 3.01 and 3.02.

SYS-104   E   L

Goal. Introduce operations on the airborne command and control platform.

Requirement. In an airborne command and control platform and without the aid of reference, perform the following:

(1) Monitor a radio net.
(2) Transmit on a radio net.
(3) Answer a telephone call.
(4) Place a telephone call.
(5) Utilize intercommunications system.
(6) Alter assigned frequencies utilizing resets/remote/radio face.

(7) Conduct emergency shutdown procedures.

Performance Standard. Pass a test with a minimum score of 80%.

Prerequisite. Lecture 4.05.

SYS-105E   E   L

Goal. Introduce operations on the ground command and control platform.

Requirement. In a ground command and control platform and without the aid of reference, perform the following:

(1) Monitor a radio net.
(2) Transmit on a radio net.
(3) Answer a telephone call.
(4) Place a telephone call.
(5) Utilize intercommunications system.
(6) Enable/disable cryptological equipment.
(7) Affiliate/disaffiliate an UCD.

Performance Standard. Pass a test with a minimum score of 80%.

Prerequisite. Lecture 4.01.

SYS-106   L

Goal. Introduce Advanced Field Artillery Tactical Data System (AFATDS).

Requirement. Utilizing an AFATDS, introduce the following:

(1) Apply power, and login.
(2) Perform setup initialization: Install map mod, map center, printer, alarms and set time.
(3) Setup communications: Owner ID, subscriber data and communication check.
(4) Send/receive plain text messages.
(5) Send/receive Battlefield Geometry.
(6) Process data techniques.
(7) Artillery firing update (AFU).

Performance Standard. Apply knowledge learned in this event as required throughout the curriculum. A MCCES DASC instructor will evaluate this event.

Prerequisite. Lectures 2.06.

SYS-107E   E   L

Goal. Conduct TBMCS applications.

Requirement. Utilizing a TBMCS terminal, perform the following:

(1) Apply power and log in.
(2) Using appropriate applications, perform the following:
    (a) Send/receive e-mail.
    (b) Receive, display, and process electronic requests for immediate air support.
    (c) Access, manipulate, and print an Air Tasking Order.

      (d) Access and print an Airspace Control Order.
      (e) Establish and participate in an online Chat session.

    Performance Standard. Pass a test with a minimum score of 80%.

    Prerequisite. Lecture 2.07.

SYS-108E   E   L

    Goal. Conduct C2PC applications.

    Requirement. Utilizing C2PC applications, perform the following:

    (1) Map Manager to include the range-bearing tool.
    (2) Receive, Send, and Build Overlays.
    (3) Apply appropriate filters.
    (4) Plot ASR, JTAR, 9 Line and Datum conversions.

    Performance Standard. Pass a test with a minimum score of 80%.

    Prerequisite. Lecture 2.08.

SYS-109E   E   L

    Goal. Understand lectures 1.01 through 5.02.

    Requirement. Attend classroom lectures 1.01 through 5.02, ensure to understand the course material being presented..

    Performance Standard. Pass a test with a minimum score of 80%.

232. CORE SKILL BASIC TRAINING

1. General

    a. This phase applies skills and information obtained at the Core Skill Basic level while assigned to a MASS unit. Initial individual core skills are learned and mastered using either a written, oral or practical demonstration of proficiency, method used is at the commander or direct representative discretion (except qualifications). This phase is complete upon ASNO qualification, requiring a completed performance evaluation and a qualification letter signed by the commanding officer or direct representative.

    b. Core Skill Basic Stages

        (1) Fire Support Coordination (FSC).
        (2) Tactical Air Request/Helicopter Request Operations (TRHR).
        (3) Tactical Air Coordinator/Direct Air Support Operations (TCDS).
        (4) Plotting (PLOT).
        (5) Direct Air Support Center Operations (DASC).
        (6) Air Support Net Operations (ASNO).

2. Fire Support Coordination (FSC)

    a. Purpose. To develop proficiency in the integration of aircraft employment with other supporting arms. Upon completion of this stage of

training, the FSC net operator is core skill basic proficient.

    b. <u>Prerequisite</u>. Complete the 100-level of this syllabus.

    c. <u>Crew Requirements</u>. Basic DASC crew.

    d. <u>Academic Training</u>. Lectures developed to reinforce this stage of training are B-14 through B-18 and B-23 through B-26.

    e. <u>Live and Simulator Event Training</u>. 2 events.

FSC-200E   16 HRS   E   DASC   L/S

    <u>Goal</u>. Perform as a Fire Support Coordination (FSC) Net Operator.

    <u>Requirement</u>. In a garrison or field environment process at a minimum of 10 items of information per hour for a 16 hour period, under direct supervision of a qualified Crew Chief, and in compliance with established evaluation criteria, apply knowledge and procedures in a safe, orderly, and expeditious manner while on the FSC Net Operator position to include:

    (1) Pass friendly information.
    (2) Pass intelligence.
    (3) Receive Artillery positions, gun firing lines and status.
    (4) Process changes to Fire Support Coordination measures.
    (5) Pass/receive changes to ATO.
    (6) Pass/receive mission status.
    (7) Maintain a crew position log.
    (8) Perform pre-brief, crew change brief and post watch brief.

    <u>Performance Standard</u>. Demonstrate proficiency required to be recommended for qualification as an FSC Net Operator. Evaluation will be conducted by a qualified Crew Chief.

FSC-201Q   4 HRS   Q   DASC   L/S

    <u>Goal</u>. Qualify as a Fire Support Coordination (FSC) Net Operator.

    <u>Requirement</u>. In a garrison or field environment process at a minimum of 10 items of information per hour for a 4 hour period, under direct supervision of a qualified Crew Chief and in compliance with established evaluation criteria, apply knowledge and procedures in a safe, orderly, and expeditious manner while on the FSC Net Operator position, to include, at minimum:

    (1) Pass friendly information.
    (2) Pass intelligence.
    (3) Receive Artillery positions, gun firing lines and status.
    (4) Changes to Fire Support Coordination measures.
    (5) Pass/receive changes to ATO.
    (6) Pass/receive mission status.
    (7) Maintain a crew position log.
    (8) Perform Pre-brief, crew change brief and Post Watch brief.

    <u>Performance Standard</u>. Perform this event in compliance with local training guides, SOP and governing directives. A qualified SAD or Crew Chief will conduct evaluation.

    <u>Prerequisite</u>. FSC-200E, and DASC-215.

3. Tactical Air Request/Helicopter Request Operator (TRHR)

    a. Purpose. To develop proficiency in receiving and processing requests for immediate direct air support. Upon completion of this portion of the training syllabus, the TAR/HR net operator is core skill basic proficient.

    b. Prerequisite. Complete the 100-level of this syllabus.

    c. Crew Requirements. Basic DASC crew.

    d. Live and Simulator Event Training. 2 events.

TRHR-202   EQUIP   L/S

    Goal. Authenticate, encrypt and decrypt text messages.

    Requirement. Provided the appropriate documents, perform the following:

    (1) Authenticate ten external agencies/stations.
    (2) Correctly respond to ten challenges from other agencies/stations.
    (3) Encrypt/decrypt five multi-word text messages.

    Performance Standard. Perform the event with 100% accuracy.

TRHR-203E   16 HRS   E   DASC   L/S

    Goal. Perform as a Tactical Air Request/Helicopter Request (TAR/HR) Net Operator.

    Requirement. Receive and process air requests and standard operational forms. In a garrison or field environment, when provided the appropriate forms and local SOP, demonstrate proficiency in receiving and processing air request for a minimum of 16 hours, at a minimum rate of seven forms per hour, including but not limited to the following:

    (1) Receive and process JTARs, assign request numbers and complete forms.
    (2) Receive and process ASRs, assign request numbers and complete forms.
    (3) Receive Battle Damage Assessments (BDAs).
    (4) Maintain crew position log.
    (5) Pass Air Defense Warning Condition/Weapons Control Status.
    (6) Pass Threat Conditions (ThreatCon) updates.
    (7) Perform Pre-brief, Crew Brief, and Post Watch Brief.
    (8) Maintain crew position log.
    (9) Pass mission data.
    (10) Authenticate/Encrypt/Decrypt, as required.

    Performance Standard. Demonstrate proficiency required to be recommended for qualification as a TAR/HR Net Operator. Evaluation will be conducted by a qualified Crew Chief.

    Prerequisites. TRHR-202, DASC-209 through 211.

TRHR-204Q   8 HRS   Q   NONE   L/S

    Goal. Qualify as a Tactical Air Request/Helicopter Request (TAR/HR) Net Operator.

    Requirement. In a garrison or field environment processing at a minimum

seven requests per hour for an eight hour period properly receive, record and process air requests. At a minimum demonstrate proficiency at:

(1) Receive and process JTARs, assign request numbers and complete forms.
(2) Receive/process ASRs, assign request numbers and complete forms.
(3) Receive Battle Damage Assessments (BDAs).
(4) Maintain crew position log.
(5) Pass Air Defense Warning Condition/Weapons Control Status.
(6) Pass Threat Conditions (ThreatCon) updates.
(7) Perform Pre-brief, Crew Brief, and Post Watch Brief.
(8) Maintain crew position log.
(9) Pass mission data.
(10) Authenticate/Encrypt/Decrypt as required.

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. A qualified SAD or Crew Chief will conduct evaluation.

Prerequisites. TRHR-202 and TRHR-203.

4. Tactical Air Coordinator/Direct Air Support Operator (TCDS)

a. Purpose. To develop proficiency in air support operations. Upon completion of this portion of the training syllabus, the TAC/DAS net operator is core skill basic proficient.

b. Prerequisite. Complete the 100-level of this syllabus.

c. Crew Requirements. Basic DASC crew.

d. Live and Simulator Event Training. 2 events.

TCDS-205E   16 HRS   E   DASC   L/S

Goal. Perform as a Tactical Air Command (TAC) and/or Direct Air Support (DAS) Net Operator.

Requirement. In a garrison or field environment process at a minimum 10 items of information per hour for a 16 hour period:

(1) Read and understand USMTF Air Tasking Order (ATO). (TAC/DAS)
(2) Receive/request changes to ATO/Frag/SPINS. (DAS)
(3) Pass friendly information. (DAS)
(4) Pass intelligence. (TAC/DAS)
(5) Receive and pass weather updates. (TAC)
(6) Receive Air Defense Warning Condition/Weapons Control Status. (TAC)
(7) Maintain crew position log. (TAC/DAS)
(8) Perform Pre-brief, crew change brief and Post Watch brief. (TAC/DAS)
(9) Pass BDA. (DAS)

Performance Standard. Demonstrate proficiency required to be recommended for qualification as a TAC and/or DAS Net Operators. Evaluation will be conducted by a qualified Crew Chief.

TCDS-206Q   8 HRS   Q   DASC   L/S

Goal. Qualify as a TAC/DAS Net Operator.

Requirement. In a garrison or field environment process at minimum 10 items of information per hour for an 8-hour period, under direct supervision of a qualified Crew Chief and in compliance with established evaluation criteria perform the following

(1) Read and understand USMTF ATO. (TAC/DAS)
(2) Receive/request changes to ATO/Frag/SPINS. (DAS)
(3) Pass friendly information. (DAS)
(4) Pass intelligence. (TAC/DAS)
(5) Receive and pass weather updates. (TAC)
(6) Receive Air Defense Warning Condition/Weapons Control Status. (TAC)
(7) Maintain crew position log. (TAC/DAS)
(8) Perform Pre-brief, crew change brief and Post Watch brief. (TAC/DAS)
(9) Pass BDA. (DAS)

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. Evaluation will be conducted by a qualified Crew Chief.

Prerequisite. TCDS-205.

5. Plotter (PLOT)

a. Purpose. To develop proficiency in air support operations. Upon completion of this portion of the training syllabus, the plotter will be core skill basic proficient.

b. Prerequisite. Complete the 100-level of this syllabus.

c. Crew Requirements. Basic DASC crew.

d. Live and Simulator Event Training. 2 events.

| PLOT-207E | E | Maps | L/S |

Goal. Perform as a Plotter.

Requirement. Read a map and plot symbology. In a garrison or field environment while given access to a variety of maps and symbology references, for a minimum of five times each, master with 100% accuracy the ability to:

(1) Find a four digit UTM coordinate within 15 seconds.
(2) Find a six digit UTM coordinate within 25 seconds.
(3) Find an eight digit UTM coordinate within 35 seconds.
(4) Locate a Lat/Long coordinate within 30 seconds.
(5) Plot friendly/enemy units using appropriate symbols.
(6) Plot DASC specific symbols (JTAR, ASR, etc) without the aid of reference.
(7) Complete and understand mission data on status boards (TAD/HD).

Performance Standard. Demonstrate proficiency required to be recommended for qualification as a plotter. Evaluation will be conducted by a qualified Crew Chief.

| PLOT-208Q | Q | Maps | L/S |

Goal. Qualify as a plotter.

Requirement. Under direct supervision of a qualified Crew Chief and in compliance with established evaluation criteria, apply knowledge and procedures in a safe, orderly, and expeditious manner while on the Plotter position. In specific, while in a garrison or field environment while given access to a variety of maps and symbology references, for a minimum of five times each, master with 100% accuracy the ability to:

(1) Find a four digit UTM coordinate within 15 seconds.
(2) Find a six digit UTM coordinate within 25 seconds.
(3) Find an eight digit UTM coordinate within 35 seconds.
(4) Locate a Lat/Long coordinate within 30 seconds.
(5) Plot friendly/enemy units using appropriate symbols.
(6) Plot DASC specific symbols (JTAR, ASR, etc) without the aid of reference.
(7) Complete and understand mission data on status boards (TAD/HD).

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. A qualified SAD or Crew Chief will conduct evaluation.

6. Direct Air Support Center (DASC)

a. Purpose. To develop basic knowledge of DASC procedures and operations proficiency in air support operations. Upon completion of this portion of the training syllabus, the ASNO will be core skill basic proficient.

b. Administrative Notes. Complete below listed MCI courses prior to completing this phase of training:

Number	MCI Course
0632	HF/UHF Field Radio Equipment
2515	Antenna Construction and Propagation of Radio Waves
2525	Communications Security
2526	Introduction to Electronic Warfare
2538	Single Channel Ground Airborne Radio System

c. Prerequisite. Complete the 100-level of this syllabus.

d. Crew Requirements. Basic DASC crew.

e. Live and Simulator Event Training. 6 events.

DASC-209   8 HRS   DASC   L/S

Goal. Employ voice radio/telephone procedures.

Requirement. In a garrison or field environment, when provided with a radio, call sign list, frequency list and appropriate forms demonstrate proficiency sending/receiving a minimum of 10 items of information per hour for an 8 hour period which may include but is not limited to the following items:

(1) Receive/pass an equipment status report.
(2) Receive/pass weather.
(3) Receive/pass air defense/weapons condition.
(4) Receive/pass aircraft status report.
(5) Receive/pass situation updates.
(6) Receive/pass aircraft status to/from other MACCS agencies.

(7) Receive ATO changes.
(8) Receive/pass Intel and fire Support coordination measure updates.
(9) Receive/pass CAS briefs.
(10) Receive/pass UAV control/deconfliction information.
(11) Use pro-words correctly.
(12) Keep transmissions as short as possible.
(13) Use appropriate logs and forms.
(14) Use authentication/encryption procedures.

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. Evaluation will be conducted by a qualified Crew Chief.

DASC-210   L/S

Goal. Maintain crew position log.

Requirement. In a garrison or field environment when provided an assigned station on a radio net, a blank log book and unit SOP:

(1) Ensure the log book shows a complete and continuous record of all transmitted and received traffic that occurs
(2) Log book must include:
    (a) Station opening and closing times
    (b) Causes of delays on the circuit
    (c) Frequency adjustments and changes and unusual occurrences such as procedure and security violations.

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. Evaluation will be conducted by a qualified Crew Chief.

DASC-211   L/S

Goal. Conduct crew briefs.

Requirement. Given a scenario, and briefing formats published in MCWP 3-25.5 conduct at least one of each of the following briefs:

(1) Pre-watch brief.
(2) Crew brief.
(3) Post-watch debrief.

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. Evaluation will be conducted by a qualified Crew Chief.

DASC-212   TBMCS   L/S

Goal. Function as a Theater Battle Management Core System (TBMCS) Operator.

Requirement. In a garrison or field environment demonstrate proficiency using the TBMCS or current equivalent system, to include but not limited to the following:

(1) Apply power, log in and complete user set-up.
(2) Import/export data.
(3) Map applications to include map database management.
(4) Send/receive data traffic using all associated applications.

(5) Receive, parse, and print ATO.
(6) Receive, process and plot immediate air support requests.
(7) Update aircraft status.

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. Evaluation will be conducted by a qualified Crew Chief.

DASC-213   AFATDS   L/S

Goal. Function as an Advanced Field Artillery Tactical Data System (AFATDS) operator.

Requirement. In a garrison or field environment demonstrate proficiency with the AFATDS software in the following areas:

(1) Basic setup to include: Cabling, connections, communications, hard drive insertion and power application.
(2) Setup initialization: Setup own unit, install map mod, map center, printer, alarms and set time.
(3) Setup communications: Owner ID, subscriber data and communication check.
(4) Send/receive plain text messages.
(5) Send/receive Battlefield Geometry.
(6) Data distribution techniques.
(7) Receive and process immediate air support requests.
(8) Artillery Firing Unit (AFU) update.
(9) Manipulate overlays.

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. Evaluation will be conducted by a qualified Crew Chief.

DASC-214   DASC   S/L

Goal. Conduct DASC operations in a Nuclear, Biological, and Chemical (NBC) environment.

Requirement. In a garrison or field environment while in MOPP-IV conduct DASC operations for a minimum of four hours.

Performance Standard. Evaluated per MCCRES standards.

DASC-215E   E   L

Goal. Understand Core Skill Basic required knowledge.

Requirement. Introduce, review, and understand the material in lectures A-1 through A-22 (except: A-16, A17 and A-20) B-01 through B-13 (except B-09) and B-25, see appendix A.

Performance Standard. Pass a test with a minimum score of 80%.

7. Air Support Net Operations (ASNO)

    a. Purpose. To qualify the ASOO as an ASNO. Upon completion of this stage of training, the qualified ASNO will be core skill proficient.

    b. Prerequisite. Qualify as a TAR/HR, TAC/DAS and FSC net operator and
Plotter.

    c. Crew Requirements. Basic DASC crew.

    d. Academic Training. In addition to MAWTS ASPs in appendix A, some
events require the operator to be familiar with knowledge from events in the
Core Skill Advanced syllabus. All knowledge events must be evaluated through
an oral or written exam, with a minimum score of 80%.

ASNO-216Q   Q   DASC   L/S

    Goal. Qualify as an Air Support Net Operator (ASNO).

    Requirement. Complete the following events: FSC201-EQ, TRHR-204EQ, TCDS-
206EQ, PLOT-208EQ and DASC-209 through DASC-215.

    Performance Standards. A qualified Crew Chief will test this event by
written or oral means.

233. CORE SKILL ADVANCED TRAINING

1. General

    a. The Core Skill Advanced phase (300-level) produces core competent
leaders and crewmembers. The personnel trained in the Core Skill Advanced
phase are Marines a commanding officer feels are capable of directing the
actions of subordinates during wartime scenarios. Upon completion of the
Core Skill Advanced phase, individuals will be a qualified DASC Crew Chief
(CC). This phase applies skills and information obtained at the Core Skill
Basic level while assigned to a MASS unit. Individual core skills are
learned and mastered using a mix of live and simulation exercises. Training
includes introduction to DASC equipment and the MACCS. This phase is
completed when the operator achieves qualifications as a DASC CC.

    b. Core Skill Advanced Stages. Crew Management – Crew Chief (CC).

2. Crew Management (CC)

    a. Purpose. To develop proficiency in air support operations.

    b. Administrative Notes. Complete MCI course 25.4, Communications Plans
and Orders, prior to completing this phase of training.

    c. Prerequisite. ASNO-216Q.

    d. Refresher Training. Refresher training is required once a qualified
Crew Chief has been absent from a 7242 billet for 24 months or longer. Core
Skill Advanced individuals will complete R coded events in the 300 level
syllabus.

    e. Crew Requirements. DASC Crew.

    f. Academic Training. The lectures developed to reinforce this stage of
training are B-14 through B-26 (except B-22) and C-01, 02, 04.

    e. Live and Simulator Event Training. 12 events.

CC-300R   R   MASS   L/S

Goal. Understand the functions of DASC support equipment.

Requirement. Pass a practical application test exhibiting knowledge of
Motor Transport/Utilities (MT/UT) support equipment in a garrison or
field environment without the use of references. Given a piece of MT/UT
equipment:

(1) State the proper nomenclature.
(2) State the power capabilities/requirements.
(3) Demonstrate proper hazardous material handling with respect to
    support equipment.
(4) Demonstrate proper environmental control unit configurations.
(5) State the relationship between environmental control unit
    configurations and specific DASC configurations.

Performance Standard. Pass a test with a minimum score of 80%.

CC-301   MWCS   L/S

Goal. Understand key features of DASC communications/electronic (C/E)
support equipment.

Requirement. Given C/E equipment, state the following:

(1) Proper nomenclature.
(2) Frequency spectrum.
(3) Expected ranges and factors affecting range.
(4) Power requirements.
(5) Proper antenna configurations.
(6) Associated cryptological equipment.
(7) Identify the owning unit for communications-electronics support
    equipment used by the DASC.
(8) Understand how the DASC employs C/E support equipment.
(9) Identify doctrinal nets the DASC would most commonly use for the
    given equipment.

Performance Standard. Pass a test with a minimum score of 80%.

CC-302   DASC   L/S

Goal. Identify communication problems.

Requirement. In a field or garrison environment, demonstrate the
following:

(1) Priority of net restoration/maintenance priorities.
(2) Determine whether the operator can solve the problem or if technical
    support must be requested.
(3) Identify the difference between system degradation and possible
    intrusion, jamming, and interference.
(4) Initiate appropriate reports.

Performance Standard. Perform this event in compliance with local
training guides, SOP and governing directives. A qualified Crew Chief or
SAD will conduct evaluation

Prerequisite. ASNO-216Q.

CC-303 _____ L/S

Goal. Conduct crew briefs.

Requirement. Given a scenario and formats published in MCWP 3-25.5,
conduct at least one of each of the following crew briefs:

(1) Pre-watch brief.
(2) Crew brief.
(3) Post-watch debrief.

Performance Standard. Perform this event in compliance with local
training guides, SOP and governing directives. A qualified SAD will
evaluate this event.

CC-304 _____ L/S

Goal. Extract critical information from supporting documents.

Requirement. In a field or garrison environment demonstrate proficiency
in extracting critical information from:

(1) Operations Orders (OPORDs).
(2) Communications Plans.
(3) Letters of Instruction (LOIs).
(4) Automated Communications-Electronic Operating Instructions. (ACEOIs)
(5) Pilot Controller Handbooks (PCHs).
(6) Airspace Control Plans (ACP).
(7) Airspace Control Orders (ACO).
(8) Air Tasking Orders (ATOs).

Performance Standard. Complete this event live or as a practical
application scenario with 100% accuracy. An SAD will conduct evaluation.

CC-305R _____ R _____ S

Goal. Perform as Crew Chief in a DASC in garrison.

Requirement. In a garrison environment the CC will implement the
following skills:

(1) Supervise a crew processing requests at a minimum rate of 7 per hour.
(2) Manage communications assets to include the identification and
    troubleshooting of communication problems.
(3) Maintain a logbook.
(4) Review forms for completeness and accuracy.
(5) Assist SAD.

Performance Standard. Perform this event in compliance with local
training guides, SOP and governing directives. A qualified SAD or Crew
Chief will conduct evaluation

Prerequisite. ASNO-216Q.

CC-306R   R   L

Goal. Perform as Crew Chief in a DASC in a field environment.

Requirement. In a field environment implement the following skills:

(1) Supervise a crew processing requests at a minimum rate of 7 per hour.
(2) Manage communications assets to include the identification and
    troubleshooting of communication problems.
(3) Maintain a logbook.
(4) Review forms for completeness and accuracy.
(5) Assist SAD.

Performance Standard. Perform this event in compliance with local
training guides, SOP and governing directives. A qualified SAD or Crew
Chief will conduct evaluation.

Prerequisite. CC-305R.

CC-307   40 HRS   DASC   S

Goal. Plan and execute a DASC simulation.

Requirement. In a garrison or field environment, implement skills to
plan, coordinate, and execute a DASC Simulation to meet local unit
training goals.

Performance Standard. Perform this event in compliance with local
training guides, SOP and governing directives. A qualified WTI or SAD
will evaluate this event.

Prerequisite. CC-305R or CC-306R.

CC-308   40 HRS   DASC   L/S

Goal. Perform as an NCOIC of an ASLT.

Requirement. Conduct the following:

(1) Briefs/debriefs.
(2) Advise supported unit on DASC capabilities/limitations.
(3) Plan, coordinate and employ ASLT equipment and personnel support
    requirements.
(4) Liaison with external agencies as required.
(5) Pass planned and scheduled fires to DASC.
(6) Advise air officer on employment of aviation assets.

Performance Standard. Perform this event in compliance with local
training guides, SOP and governing directives. Evaluation will be
conducted by an SAD or qualified Crew Chief.

Prerequisite. ASNO-216Q.

CC-309R   4 HRS   R   DASC   S/L

Goal. Conduct DASC operations in a Nuclear, Biological and Chemical (NBC) environment.

Requirement. In a garrison or field environment and in MOPP-IV, the CC will perform the following skills:

(1) Conduct brief/debrief.
(2) Advise supported unit on DASC capabilities/limitations.
(3) Plan, coordinate and employ ASLT equipment and personnel support requirements.
(4) Liaison with external agencies as required.
(5) Pass planned and scheduled fires to DASC.
(6) Advise air officer on employment of aviation assets.

Performance Standard. Evaluated per MCCRES standards.

CC-310R   R   L

Goal.   Understand Core Skill Advanced required knowledge.

Requirement.   Be presented the material in Lectures B-14 through B-26 and C-01 through C-05.

Performance Standard. Pass a test with a minimum score of 80%.

CC-311Q   Q   DASC   L/S

Goal. Qualify as a Crew Chief (CC).

Requirement. Under direct supervision of a qualified DASC Enlisted WTI and in compliance with established evaluation criteria, apply knowledge and procedures in a safe, orderly, and expeditious manner while performing as a Crew Chief. Specifically, while in a garrison or field environment the CC will perform the following skills:

(1) Conduct brief/debrief.
(2) Advise supported unit on DASC capabilities/limitations.
(3) Plan, coordinate and employ ASLT equipment and personnel support requirements.
(4) Liaison with external agencies as required.
(5) Pass planned and scheduled fires to DASC.
(6) Advise air officer on employment of aviation assets.

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. Evaluation will be conducted by a qualified Crew Chief. A DASC Enlisted WTI will evaluate performance of this event qualitatively.

Prerequisite. CC-300 through 306 and CC-310.

234. CORE PLUS TRAINING

1. General

a. This phase of training is reserved for large scale integrated

missions and/or events having unique mission tasks. Personnel that complete this phase have achieved Core Plus Skills and are capable of the most demanding combat tasks. In some cases, higher echelon supervisory position training and qualifications may be reflected where the development of a separate T&R syllabus is not practical or warranted. These personnel are the most experienced personnel within a unit. They are expected to display the maturity and tactical/operational skill commensurate with this status on a daily basis.

    b. <u>Core Skill Plus Stages</u>

        (1) Air Support Net Operations (ASNO).
        (2) Direct Air Support Center Operations (DASC).
        (3) Battle Management (BM).

    c. <u>Administrative Note</u>. Upon completion of this phase of training, an Air Support Operations Operator will have the skills to plan and execute advanced DASC operations in a joint and/or combined environment.

2. <u>Air Support Net Operations (ASNO)</u>

    a. <u>Purpose</u>. To enhance the Air Support Net Operator's abilities in amphibious/expeditionary operations to include the capability to phase control ashore.

    b. <u>Prerequisite</u>. ASNO-216Q.

    c. <u>Crew Requirements</u>. Minimum ASE crew.

    d. <u>Live and Simulator Event Training</u>. 1 event.

ASNO-400	ASE	L

    <u>Goal</u>. Perform as a net operator of an Air Support Element (ASE) on a MEU.

    <u>Requirement</u>. Perform as a member of an ASE on a MEU.

    <u>Performance Standard</u>. Perform net operator duties per SOP and governing directives and as further directed by competent authority.

    <u>External Syllabus Support</u>. MEU/ARG deployment.

3. <u>Direct Air Support Center Operations (DASC)</u>

    a. <u>Purpose</u>. To develop basic knowledge of MACCS agencies in order to enhance ASOO proficiency.

    b. <u>Administrative Notes</u>. Upon completion of this portion of the training syllabus, the Marine will be proficient in basic knowledge of MACCS agencies.

    c. <u>Prerequisite</u>. Complete the 300-level phase of this syllabus.

    d. <u>Live and Simulator Event Training</u>. 7 events.

DASC-401	TACC	L

    <u>Goal</u>. Introduce configuration and operation of the Tactical Air Command

Center (TACC), focusing on the Current Operations Sections.

Requirement. Tour the TACC in a garrison or field environment.

Performance Standard. Complete a tour of an operational TACC.

External Syllabus Support. TACC brief and tour.

Prerequisite. Lecture B-07.

DASC-402   TAOC/ EW/C   L

Goal. Introduce configuration and operation of the Tactical Air
Operations Center (TAOC) and/or Early Warning/Control (EW/C).

Requirement. Tour the TAOC and/or EW/C in a garrison or field
environment.

Performance Standards. Complete a tour of an operational TAOC or EW/C.

External Syllabus Support. TAOC and/or EW/C brief and tour.

Prerequisite. Lecture A-08.

DASC-403   ATC   L

Goal. Introduce configuration and operation of a Marine Air Traffic
Control (MATC) facility.

Requirement. Tour a MATC facility.

Performance Standard. Complete a tour in an operational MATC facility.

External Syllabus Support. ATC brief and tour.

DASC-404   LAAD BN   L

Goal. Introduce configuration and operation of the Low Altitude Air
Defense (LAAD) Bn.

Requirement. Tour a LAAD Bn.

Performance Standard. Complete a tour of a LAAD Bn.

External Syllabus Support. LAAD Bn brief and tour.

DASC-405   TACP   L

Goal. Introduce configuration and operation of a Tactical Air Control
Party (TACP).

Requirement. Observe a TACP in a field environment.

Performance Standard. Complete a tour of an operational TACP.

External Syllabus Support. TACP brief and tour.

DASC-406   FSCC   L

Goal. Introduce configuration and operation of an operational Fire

Support Coordination Center (FSCC).

Requirement. Tour an operational FSCC in a field environment.

Performance Standard. Complete a tour of an operational FSCC.

External Syllabus Support. FSCC brief and tour.

DASC-407   VMU   L

Goal. Introduce configuration and operation of an operational Marine Unmanned Aerial Vehicle (VMU) site.

Requirement. Tour an operational VMU site in a garrison or field environment.

Performance Standard. Complete a tour an operational VMU site.

External Syllabus Support. VMU brief and tour.

Prerequisite. Lecture A-07.

4. Battle Management (BM)

a. Purpose. Control assigned and itinerate aircraft, to include UAVs and plan, install, displace, operate and maintain communications to conduct direct air support operations.

b. Administrative Notes. Upon completion of this stage of training, the Marine will be proficient in planning and Battle Management.

c. Prerequisite. Complete the 300-level phase of this syllabus and at minimum be ASNO qualified.

d. Live and Simulator Event Training. 3 events.

BM-408   50 HRS   DASC   S/L

Goal. Perform as a Tactical Air Director (TAD).

Requirement. In a garrison or field environment at a minimum rate of two sorties per hour, under direct supervision of a qualified SAD and in compliance with established evaluation criteria,

(1) Parse a USMTF-formatted Air Tasking Order (ATO).
(2) Conduct crew brief/debrief.
(3) Utilize SALT (Situation, Activity, Location, Tasking) brief when briefing aircraft.
(4) Use proper RT/brevity codes.
(5) Maintain logbook and RIO log.
(6) Control, route and divert aircraft.
(7) Match available airborne assets with requests.
(8) Pass crew information.

Performance Standard. Perform this event in compliance with local training guides, SOP and governing directives. A SAD will conduct evaluation.

Prerequisite. ASNO-216Q.

BM-409   50 HRS   DASC   S/L

    Goal. Perform as a Helicopter Director (HD).

    Requirement. In a garrison or field environment, at a minimum rate of
    two sorties per hour, implement skills as a HD, including:

    (1) Parse a USMTF-formatted ATO.
    (2) Conduct crew brief/debrief.
    (3) Utilize SALT brief when briefing aircraft.
    (4) Use proper RT/brevity codes.
    (5) Maintain logbook and RIO log.
    (6) Control, route and divert aircraft.
    (7) Match available airborne assets with requests.
    (8) Pass crew information.

    Performance Standard. Perform this event in compliance with local
    training guides, SOP and governing directives. A qualified SAD will
    conduct evaluation.

    Prerequisite. ASNO-216Q.

BM-410   DASC   L

    Goal. Assist in DASC site selection and communications emplacement.

    Requirement. In field environment implement skills in selection of a
    DASC site and emplacement of communications equipment taking into
    consideration the following:

    (1) Communications connectivity.
    (2) FSCC coordination.
    (3) Site security.
    (4) Camouflage and dispersion.
    (5) Advance Party/RSOP.
    (6) Support equipment.
    (7) Trafficability.
    (8) Establish priority for equipment emplacement.
    (9) Echelon considerations.
    (10) Identification of alternate sites.

    Performance Standard. Perform this event in compliance with local
    training guides, SOP and governing directives. A qualified SAD will
    conduct evaluation.

BM-411   DASC   L/S

    Goal. Provide formal battle management instruction to DASC personnel.

    Requirements. As a qualified WTI, provide formal instruction to DASC
    personnel. Assignment as the WTTP SNCOIC is not required.

    Performance Standard. Perform this event in compliance with local
    training guides, SOP and governing directives. A qualified SAD will
    conduct evaluation.

    Prerequisite. INST-500.

240. INSTRUCTOR (INST) TRAINING

1. General

    a. Purpose. To qualify an individual as a Weapons and Tactics Instructor(WTI) – Air Control. The MAWTS-1 Course Catalog shall be referenced for instructor workup and certification events. Upon completion, the Crew Chief is designated as a WTI and is assigned designation MOS 7277.

    b. Prerequisites. CC-311Q.

    c. Live and Simulator Event Training. 1 event.

INST 500   MACCS   L

    Goal. Qualify as a Weapons and Tactics Instructor (WTI) – Air Control.

    Requirement. Attend and complete the WTI C3 Course, see MAWTS-1 Course Catalog for requirements and additional guidance.

    Performance Standard. Graduate from the WTI course and be certified by MAWTS-1 as a WTI – Air Control.

    Prerequisite. CC-311Q

250. QUALIFICATIONS AND DESIGNATIONS

1. General

    a. This phase contains tracking codes and events designed to facilitate training management and community training standardization.

    b. The 600-level stages are known as Qualifications and Designations.

2. ASOO Qualifications

    a. General. Qualification is a status assigned to personnel based on demonstrated proficiency in a specific skill. Qualification codes do not constitute events themselves. They will be logged upon completion of qualification requirements, signing of the qualification letter by the commander, and filing it in the MACCS performance training record, as well as completion of required administrative actions. Loss of proficiency for all associated qualification events constitutes loss of that qualification. Refer to the Core Skills (Basic and Advanced) and Core Plus phases for qualification requirements.

    b. Fire Support Coordinator (FSC) qualification. An FSC net operator is qualified upon completion of required FSC Core Skill Basic phase events. An entry shall be made in the individual MACCS performance training record stating the qualification.

    c. Tactical Air Command/Direct Air Support (TAC/DAS) qualification. A TAC/DAS net operator is qualified upon completion of required TAC/DAS Core Skill Basic phase events. An entry shall be made in the individual MACCS performance training record stating the qualification.

    d. Plotter (PLOT) qualification. A Plotter is qualified upon completion
of required Plotter Core Skill Basic phase events. An entry shall be made in
the individual MACCS performance training record stating the qualification.

    e. Tactical Air Request/Helicopter Request (TAR/HR) qualification. A
TAR/HR net operator is qualified upon completion of required TAR/HR Core
Skill Basic phase events. An entry shall be made in the individual MACCS
performance training record stating the qualification.

    f. Air Support Net Operator (ASNO) qualification. An ASNO is qualified
upon completion of all required Core Skill Basic phase events. An entry
shall be made in the individual MACCS performance training record stating the
qualification.

    g. Crew Chief qualification. A Crew Chief is qualified upon completion
of all required Advanced Core Skill phase events. An entry shall be made in
the individual MACCS performance training record stating the qualification.

    h. Weapons and Tactics Instructor (WTI) – Air Control. A WTI is
qualified upon completion of the required Core Skill Instructor phase events.
An entry shall be made in the individual MACCS performance training record
stating the qualification.

QUAL-600   L
_____

    Goal. Qualify as WTI – Air Control.

    Prerequisite. INST-500.

QUAL-601   L/S
_____

    Goal. Qualify as FSC net operator.

    Prerequisite. FSC-201Q.

QUAL-604   L/S
_____

    Goal. Qualify as TAR/HR net operator.

    Prerequisite. TRHR-204Q.

QUAL-606   L/S
_____

    Goal. Qualify as TAC/DAS net operator.

    Prerequisite. TCDS-206Q.

QUAL-608   L/S
_____

    Goal. Qualify as a Plotter.

Prerequisite. PLOT-208Q.

QUAL-616   L/S

Goal. Qualify as an ASNO.

Prerequisite. ASNO-216Q.

QUAL-611   L/S

Goal. Qualify as a CC.

Prerequisite. CC-311Q.

260. EXPENDABLE ORDNANCE REQUIREMENTS. None.

270. PROFICIENCY INTERVALS. Tables 2-11, 2-12 and 2-13 contain a summary of each event code to include conditions and proficiency intervals for the Core Skills Basic, Core Skills Advanced, and Core Plus levels. Recall there are no R-coded events in the ASNO syllabus thus there are no proficiency intervals for any event.

Table 2-11. -- ASOO Proficiency Intervals for Core Skill Basic Training.

STAGE/EVENT	PROFICIENCY INTERVAL (Months)	CRP	CONDITIONS & REMARKS
FSC-200	N/A	.5	L/S
FSC-201Q	N/A	2.0	L/S
TRHR-202	N/A	.5	L/S
TRHR-203	N/A	.5	L/S
TRHR-204Q	N/A	2.0	L/S
TCDS-205	N/A	.5	L/S
TCDS206Q	N/A	2.0	L/S
PLOT-207	N/A	.5	L/S
PLOT-208Q	N/A	2.0	L/S
DASC-209	N/A	.5	L/S
DASC-210	N/A	.5	L/S
DASC-211	N/A	.5	L/S
DASC-212	N/A	.5	L/S
DASC-213	N/A	.5	L/S
DASC-214	N/A	.5	S/L
DASC-215E	N/A	1.0	L
ASNO-216Q	N/A	.5	L/S
E= Evaluation of performance for Qual recommendation Q = Qualification			

Table 2-12. -- ASOO Proficiency Interval for Core Skill Advanced Training.

STAGE/EVENT	PROFICIENCY INTERVAL (Months)	CRP	CONDITIONS & REMARKS
CC-300R	24	2.0	L/S
CC-301	N/A	1.0	L/S
CC-302	N/A	1.0	L/S
CC-303	N/A	1.0	L/S
CC-304R	24	2.0	S
CC-305R	24	2.0	L
CC-306	N/A	1.0	S
CC-307	N/A	1.0	L
CC-308	N/A	2.0	L/S
CC-309R	24	2.0	L
CC-310R	24	2.0	L
CC-311Q	N/A	3.0	L/S
Q = Qualification R = Refresh			

Table 2-13. -- ASOO Proficiency Interval for Core Skill Plus Training.

STAGE/EVENT	PROFICIENCY INTERVAL (Months)	CRP	CONDITIONS & REMARKS
ASNO-400	N/A	1.0	L
DASC-401	N/A	0.1	L
DASC-402	N/A	0.1	L
DASC-403	N/A	0.1	L
DASC-404	N/A	0.1	L
DASC-405	N/A	0.1	L
DASC-406	N/A	0.2	L
DASC-407	N/A	0.2	L
BM-408	N/A	0.5	S/L
BM-409	N/A	0.5	S/L
BM-410	N/A	1.0	L
BM-411	N/A	1.1	L

271. <u>EVENT UPDATE CHAINING</u>. Table 2-14 contains ASOO event update chaining.

Table 2-14. —- ASOO Event Update Chaining.

EVENT	EVENTS UPDATED	EVENT	EVENTS UPDATED	EVENT	EVENTS UPDATED
FSC-201Q	FSC-200	CC-302	ASNO-216Q	BM-408	ASNO-216Q
TRHR-203	TRHR-202 DACS-209 DASC-210 DASC-211	CC-305R	ASNO-216Q	BM-409	ASNO-216Q
TRHR-204Q	TRHR-202 TRHR-203	CC-306R	CC-305R	BM-411	CC-311Q
TCDS-206Q	TCDS-205	CC-307	CC-305R OR CC-306R	NA	NA
ASN0-216Q	FSC-201Q TRHR-204Q TCDS-206Q PLOT-208Q DASC-209 DASC-210 DASC-211 DASC-212 DASC-213 DASC-214 DASC-215	CC-308	ASNO-216Q	NA	NA
NA	NA	CC-311Q	ASNO-216Q CC-301 CC-302 CC-303 CC-304 CC-305R CC-306R CC-310R	NA	NA

280. <u>EVENT CONVERSION MATRIX</u>. An event conversion matrix is provided as a reference to facilitate the conversion of the former DASC T&R event codes to the new event codes now outlined within this chapter, see appendix D.

APPENDIX A

DASC LECTURE TITLES

DASC LECTURES

LECTURE CODE	LECTURE TITLE	SPONSOR
	ASCOC PROGRAM OF INSTRUCTION	
1.01	Marine Air Ground Task Force (MAGTF)	MCCES
1.02	Marine Division	MCCES
1.03	Marine Aviation	MCCES
1.04	Unmanned Aerial Vehicles (UAV)	MCCES
1.05	Aircraft Capabilities	MCCES
1.06	Aviation Ordnance	MCCES
1.07	Supporting Arms	MCCES
1.08	Marine Air Command and Control System (MACCS)	MCCES
1.09	Tactical Air Command Center (TACC)	MCCES
1.10	Direct Air Support Center (DASC)	MCCES
1.11	Fire Support Coordination Center (FSCC)	MCCES
1.12	Terminal Controllers/DASC Extension	MCCES
1.13	Integrated Air Defense System (IADS)	MCCES
1.14	Marine Wing	MCCES
1.15	Amphibious Operations	MCCES
1.16	Command and Control of Amphibious Operations	MCCES
1.17	Marine Air Support Squadron (MASS)	MCCES
2.01	Introduction to Communications	MCCES
2.02	Radio/Telephone Procedures	MCCES
2.03	Communication Nets	MCCES
2.04	Introduction to Electronic Warfare (EW)	MCCES
2.05	Pacific Numeral Cipher/Authentication System	MCCES
2.06	Advanced Field Artillery Tactical data system (AFATDS) Setup	MCCES
2.07	Introduction to TBMCS	MCCES
2.08	Introduction to C2PC	MCCES
2.10	Security of Classified Information	MCCES
3.01	Joint Tactical Air strike Request (JTAR)	MCCES
3.02	Assault Support Request (ASR)	MCCES
3.03	Map Reading	MCCES
3.04	Plotting Symbology	MCCES
3.06	CSAR/TRAP	MCCES
3.07	Procedural Control of Aircraft	MCCES
3.08	Surface-to-Air Threat to the MAGTF	MCCES
3.09	Threat Aircraft	MCCES
3.10	Operations Documents	MCCES
3.11	US Message Text Format (USMTF)	MCCES
3.12	Internal/External Information Flow	MCCES
3.14	Logbooks	MCCES
3.15	Communications Supporting Documents	MCCES
3.16	Theater Air Ground System (TAGS)	MCCES
3.17	Training and Readiness (T&R)	MCCES
3.18	Air Tasking Order Confirmation (ATOCONF)	MCCES
4.01	Operation of the AN/TSQ-207	MCCES
4.02	Air Support Communication Equipment	MCCES
4.03	Tactical Employment of the DASC	MCCES
4.05	Operation of the AN/UYQ-3A	MCCES

	200-Level: Core Skill Introduction Training	
A-01	MAGTF Organization	MCCES
A-02	MACCS Organization	MCCES
	The Six Functions of Marine Aviation	
A-03	Control of Aircraft & Missiles	MAWTS-1
A-04	Offensive Air Support	MAWTS-1
A-05	Assault Support	MAWTS-1
A-06	Electronic Warfare	MAWTS-1
A-07	Aerial Reconnaissance	MAWTS-1
A-08	Anti-Air Warfare	MAWTS-1
A-09	Air Tasking Order/Special Instructions	MCCES
A-10	MACCS Training Management	MCCES
A-11	MACCS reference material	MCCES
A-12	Local AOR Contingencies & OP PLANS	Local MACG
A-13	ROE Overview	MAWTS-1
A-14	MACCS Communications	MAWTS-1
A-15	TBMCS Overview	MAWTS-1
A-18	Encryption & Authentication Procedures	MCCES
A-19	COMSEC & Crypto handling	MCCES
A-21	DASC Crew Brief Responsibilities	MAWTS-1
A-22	DASC Displacement Operations	MAWTS-1
C-04	MACG in support of MEU (SOC)	MAWTS-1
	300-Level: Core Skill Advanced Training	
A-17	Directive Crosstell procedures	MCCES
B-01	Missile and UAV Threat	MAWTS-1
B-02	Fixed Wing Threat	MAWTS-1
B-03	Rotary Wing Threat	MAWTS-1
B-04	REC Threat	MAWTS-1
B-05	Armor Threat	MAWTS-1
B-06	AOR Specific Threat	Local MACG
	MACCS Agencies	
B-07	TACC	MAWTS-1
B-08	TAOC	MAWTS-1
B-10	ATC Detachment	MAWTS-1
B-11	LAAD Bn	MAWTS-1
B-12	Air Defense Detachment	MAWTS-1
B-13	MWCS	MAWTS-1
B-14	AEW	MAWTS-1
B-15	MACCS/Joint Data link	MAWTS-1
B-16	USMC Aviation Ordnance	MCCES
B-17	Phasing Control Ashore	MAWTS-1
B-18	Airspace Planning/Management (Combat Airspace)	MAWTS-1
B-19	Tanker Management	MAWTS-1
B-20	Armed Reconnaissance	MAWTS-1
B-21	UAV Programs & Integration	MAWTS-1
B-23	CSAR/TRAP	MAWTS-1
B-24	NEO Execution	MAWTS-1
B-25	Execution Checklist	MAWTS-1
B-26	OSCC/TECHON	MAWTS-1
	400-Level: Core Plus Training	
C-01	Theater Air Ground System (TAGS)	MAWTS-1
C-02	Joint Air Operations	MAWTS-1
C-03	Theater Missile Defense	MAWTS-1
C-05	ROE Development	MAWTS-1
C-06	SIS Aircraft	MAWTS-1

APPENDIX B

ASCO REFERENCES

ASCO REFERENCE

REFERENCE	TITLE
MCWP 3-2	Aviation Operations
MCWP 3-25	Control of Aircraft and Missiles
MCWP 3-25.1	Integrated Combat Airspace Command and Control (ICAC2)
MCWP 3-25.2	Theater Air Ground System (TAGS)
MCWP 3-25.3	MACCS Handbook
MCWP 3-25.4	Marine TACC Handbook
MCWP 3-25.5	DASC Handbook
MCWP 3-25.6	SAAWC Handbook
MCWP 3-35.7	TAOC Handbook
MCWP 3-25.8	MATCD Handbook
MCWP 3-25.9	Air Defense Det Handbook
MCWP 3-25.10	LAAD Bn Handbook
MCWP 3-25.11	LAAD Gunner's Handbook
MCWP 3-25.12	MWCS Handbook
FM 11-1	NBC Operations
FM 100-42	USAF/USA Airspace Management in the Area of Operations Coordination
FMFM 6-18	Techniques and Procedures for Fire Support
OPNAVINST 3710	NATOPS DIRECTIVE
TM-11240 Series	Motor Transport Technical Characteristics
TM-11275 Series	Principle Technical Characteristics of Engineer Equipment
TM-2000 Series	USMC Communications-Electronics Equipment
MCO 3501.9B	Marine Corps Combat Readiness Evaluation System (MCCRES)
JtDivO P3120.23	FSC SOP
ACP-125	Allied Communication Publication
DASC PCL	DASC Pocket Checklist

APPENDIX C

ASCO EVENT CONVERSION MATRIX

ASCO EVENT CONVERSION MATRIX

CURRENT EVENT NUMBER	GOAL	OLD EVENT NUMBER
SYS-100E	Understand air support communications equipment.	SYS-100
SYS-101E	Conduct authentication, encryption, and decryption.	SYS-101
SYS-102E	Accurately plot coordinates.	SYS-103
SYS-103E	Pass a practical application test on the JTAR/ASR.	SYS-102
SYS-104E	Introduce the airborne command and control platform.	SYS-104
SYS-105E	Introduce ground command and control platform.	SYS-105
SYS-106	Introduce the AFATDS.	SYS-106
SYS-107E	Introduce TBMCS applications.	SYS-107
SYS-108	Introduce the C2PC Applications	SYS-108
SYS-109E	Understand lectures 1.01 through 5.01.	SYS-109
CTRL-200	Introduce configuration and operation of a TACP.	FAM-214
CTRL-201	Introduce configuration and operation of a TAOC and/or EW/C in a garrison or field environment.	FAM-211
CTRL-202	Introduce configuration and operation of a Air Traffic Control Facility.	FAM-212
CTRL-203	Introduce the configuration and operation of a LAAD Bn.	FAM-213
CTRL-204	Introduce the configuration and operation of an operational Marine UAV site	FAM-216
CTRL-205	Conduct DASC operations in a NBC environment.	NBC-222
CTRL-206E	Understand communications support equipment.	SYS-200
CTRL-207E	Understand motor transport/utilities support equipment.	SYS-201
CTRL-208E	Understand Core Skill basic Knowledge.	SYS-209
HD-209ER	Perform the duties of a Helicopter Director (HD).	OPS-233
HD-210Q	Qualify as a Helicopter Director (HD).	QUAL-293
TAD-211ER	Perform the duties of a Tactical Air Director (TAD).	OPS-232
TAD-212Q	Qualify as a Tactical Air Director (TAD).	QUAL-292
SAD-300	Introduce the current operations section of an operational TACC.	OPS-480
SAD-301	Introduce operations and equipment of a MWCS.	OPS-483
SAD-302	Introduce the configuration and operation of an operational FSCC.	FAM-215
SAD-303	Conduct DASC operations in a NBC environment.	NBC-324
SAD-304E	Plan and execute a DASC Simulation.	OPS-342
SAD-305	Assist in DASC site selection and communications emplacement.	OPS-336
SAD-306E	Perform as OIC of a MASS Det on a field deployment/MEU.	OPS-476
SAD-307E	Perform as an Air Support Liaison Team OIC.	OPS-262
SAD-308E	Perform as an SAD during an Airborne DASC.	OPS-354
SAD-309ER	Perform as a Senior Air Director (SAD).	OPS-334
SAD-310ER	Understand Core Skill Advanced Knowledge	SYS-309
SAD-316Q	Qualify as a Senior Air Director (SAD).	QUAL-394

ASCO EVENT CONVERSION MATRIX

CURRENT EVENT NUMBER	GOAL	OLD EVENT NUMBER
DSWO-400E	Operate in the TACC.	NEW
DSWO-401	Serve as a DASC LNO in the operations section of a joint and/or combined command and control organization.	OPS-485
DSWO-402	Conduct operational planning for ACE operations.	OPS-484
DSWO-403	Conduct operational planning for joint/combined operations.	OPS-486
DSWO-404	Introduce configuration and operation of an operational Air Operations Center (AOC).	NEW
DSWO-405	Perform as OIC of a MACG det on a field deployment/MEU.	OPS-438
DSWO-406E	Understand Core Plus Knowledge	SYS-409
DSWO-414	Perform as a DASC LNO	NEW
DSWO-418	Provide formal battle management instruction to DASC personnel.	NEW
INST-518	Successfully complete the WTI-Air Control Course.	QUAL-494
QUAL-610	Qualify as a Helicopter Director (HD).	NEW
QUAL-612	Qualify as a Tactical Air Director (TAD).	NEW
QUAL-616	Qualify as a Senior Air Director (SAD).	NEW
QUAL-618	Qualify as a WTI.	NEW
Deleted	Qualify as a Tactical Air Director (TAD).	QUAL-190
Deleted	Qualify as a Helicopter Director (HD).	QUAL-191
Deleted	Tour the Tactical Air Command Center (TACC).	FAM-210
Deleted	Perform as a TAD/HD during an Airborne DASC.	OPS-252
Deleted	Perform as an OIC of an Airborne DASC.	OPS-356
Deleted	Perform as an OIC of an ASLT.	OPS-366
Deleted	Conduct DASC operations in a NBC environment.	NBC-426
Deleted	Serve as OIC of a MASS Det on a field deployment.	OPS-436
Deleted	Serve as a member of an ASE on a MEU.	OPS-472
Deleted	Serve as the OIC of a MACG Detachment on a MEU.	OPS-478
Deleted	Serve with a MACS Det (TAOC, EW/C, ATC, Air Defense) on a field deployment.	OPS-481
Deleted	Serve with a LAAD Battery or below on a field deployment.	OPS-482
Deleted	Be assigned to a MACG unit other than the MASS.	OPS-487
Deleted	Pass Aviation Flight Physical.	RQD-682
Deleted	Pass Aviation Flight Physiology.	RQD-683
Deleted	Pass appropriate Aviation Swim Qualification.	RQD-684

APPENDIX D

ASOO EVENT CONVERSION MATRIX

ASOO EVENT CONVERSION MATRIX

CURRENT EVENT NUMBER	GOAL	OLD EVENT NUMBER
SYS-100E	Understand air support communications equipment.	SYS-100
SYS-101E	Conduct authentication encryption, and decryption.	SYS-101
SYS-102E	Accurately plot coordinates.	SYS-103
SYS-103E	Receive and Process JTARs and ASRs.	NEW
SYS-104	Introduce operations on the airborne command and control platform.	SYS-104
SYS-105E	Introduce operations on the ground command and control platform.	SYS-105
SYS-106	Introduce the AFATDS.	SYS-108
SYS-107	Conduct TBMCS applications.	SYS-106 SYS-107
SYS-108E	Conduct C2PC applications.	NEW
SYS-109E	Understand lectures 1.01 through 5.01.	SYS-109
FSC-200E	Perform as FSC net operator.	OPS-333
FSC-201Q	Qualify as a FSC net operator.	NEW
TRHR-202	Authenticate, Encrypt and Decrypt text messages.	SYS-202
TRHR-203E	Perform as TAR/HR net operator.	OPS-242
TRHR-204Q	Qualify as a TAR/HR net operator.	NEW
TCDS-205	Perform as a TAC/DAS net operator.	OPS-337
TCDS-206Q	Qualify as a TAC/DAS net operator.	NEW
PLOT-207E	Perform as Plotter.	SYS-204
PLOT-208Q	Qualify as a Plotter.	NEW
DASC-209	Employ R/T Procedures.	OPS-240
DASC-210	Maintain crew position logs.	OPS-243
DASC-211	Conduct crew briefs.	SYS-205
DASC-212	Function as TBMCS operator.	OPS-332
DASC-213	Function as AFATDS operator.	OPS-331
DASC-214	Conduct DASC OPS in NBC environment.	NBC-220
DASC-215E	Understand Core Skill Basic knowledge.	SYS-209 SYS-309
ASNO-216Q	Qualify as an ASNO.	Qual-390
CC-300R	Understand the functions of DASC support equipment.	SYS-201
CC-301	Understand key features of DASC communication support equipment.	SYS-200
CC-302	Identify communications problems.	SYS-206
CC-303	Conduct crew briefs.	SYS-205
CC-304	Extract critical info from supporting documents.	SYS-207
CC-305R	Perform as a Crew Chief in a DASC in garrison.	OPS-241
CC-306R	Perform as a crew chief in a field environment.	OPS-339
CC-307	Plan and execute a DASC simulation.	OPS-342
CC-308	Perform as a NCOIC of an ASLT.	OPS-367
CC-309R	Conduct DASC operations in a NBC environment.	NBC-321
CC-310R	Understand Core Skill Advance required knowledge.	SYS-209 SYS-309 SYS-409
CC-311Q	Qualify as a Crew Chief.	QUAL-391
ASNO-400	Perform as a net operator on an ASE on a MEU.	OPS-470

ASOO EVENT CONVERSION MATRIX

CURRENT EVENT NUMBER	GOAL	OLD EVENT NUMBER
DASC-401	Introduce configuration and operation of TACC	FAM-210
DASC-402	Introduce configuration and operation of TAOC	FAM-211
DASC-403	Introduce configuration and operation of ATC	FAM-212
DASC-404	Introduce configuration and operation of LAAD Bn.	FAM-213
DASC-405	Introduce configuration and operation of TACP.	FAM-214
DASC-406	Introduce configuration and operation of FSC.	FAM-215
DASC-407	Introduce configuration and operation of a Marine UAV site.	NEW
BM-408	Perform as a TAD	OPS-340
BM-409	Perform as a HD	OPS-341
BM-410	Assist in DASC site selection and communications emplacement.	OPS-336
BM-411	Provide formal battle management instruction to DASC personnel.	NEW
INST-500	WTI Course Qualification	QUAL-491
QUAL-600	Qualify as a WTI	NEW
QUAL-601	Qualify as a FSC net operator.	NEW
QUAL-604	Qualify as a TAR/HR net operator.	NEW
QUAL-606	Qualify as a TAC/DAS net operator.	NEW
QUAL-608	Qualify as a Plotter	NEW
QUAL-616	Qualify as an ASNO.	NEW
Deleted	Qualify as a TAR/HR net operator.	QUAL-193
Deleted	Qualify as a TAC/DAS net operator.	QUAL-194
Deleted	Qualify as a FSCC net operator.	QUAL-195
Deleted	Operate a computer.	SYS-203
Deleted	Function as a MAGTF C4I Software Baseline Operator.	OPS-330
Deleted	Function as a TAR/HR Net operator.	OPS-335
Deleted	Perform as NCOIC of a MASS Det on a field deployment.	OPS-435
Deleted	Perform as NCOIC of a MACG Det on a field deployment.	OPS-437
Deleted	Perform as a net operator in a DASC(A).	OPS-450
Deleted	Perform as a Crew Chief during an Airborne DASC.	OPS-451
Deleted	Perform as a net operator on an ASLT.	OPS-460
Deleted	Perform as NCOIC during deployment of a MEU MACG det.	OPS-477
Deleted	Operate in a Tactical Air Command Center (TACC).	OPS-480
Deleted	Serve as a Liaison in the operations section of joint/combined command and control organization.	OPS-485
Deleted	Conduct operational planning for ACE operations.	OPS-488
Deleted	Conduct operational planning for joint/combined operations.	OPS-489
Deleted	Qualify as an ISO.	QUAL-490
Deleted	Qualify as a Tactical Air Director (TAD)	QUAL-492
Deleted	Qualify as a Helicopter Director (HD)	QUAL-493
Deleted	Obtain Incidental Drivers License	RQD-680
Deleted	Obtain appropriate Generators License.	RQD-681
Deleted	Pass Aviation Flight Physical	RQD-682
Deleted	Pass Aviation Flight Physiology	RQD-683
Deleted	Pass Aviation Swim Qualification	RQD-684